Document Receipt Acknowledgement
Date: Section: Name:

Document Number: D08831-A-D7300

Date: July 31st, 2025

Attention:

TTI

4M Change Notice

Chip Multilayer Ceramic Capacitors (MLCC)

Dear. Valued Customer

Thank you very much for your great and continued support for business with Murata.
This is the official notification that some of our products' 4M Change will be proceeded as detailed below.
Please review this, and approve in writing by Approval Due Date.
Your understanding and support are highly appreciated.

1. Product Type, Changes, and Customer/Murata/Alternative Part Numbers:

Product Type: GCJ21BR71H105_A01, GCJ21BR71H105_A14, GCJ32EL81E475_A01, GCJ32ER71H475_A12/A14/A17, GCJ32ER71E106_A18, GCJ32ER7ZB106_A07

Changes: ☑ Man ☐ Machine ☐ Material ☐ Method

Before Change	After Change
Izumo Murata Mfg. Co.,Ltd.	Izumo Murata Mfg. Co., Ltd. Philippines Manufacturing Co. of Murata, Inc

Please refer to the attached documents for detailed Part Numbers' information.

2. Reasons/Background:

In order to restructure the supply system due to increase MLCC demand,
we are expanding the production capacity of each factory and reorganizing
production items at each factory.

3. Products Before and After the Change:

There are no changes of the products' design, quality, guaranteed specifications, and others,
as Murata continuously uses the same production process and quality control system.

4. Approval Due: **September 30, 2026**

Please review this, and reply to Sales for this Notice in writing by Due Date.

5. Change Schedule:

Shipment of new production items from new factory after receiving customer approval.

6. Contact Window:

Should you have any questions or concerns,
please contact Murata Sales, Representative, or Distributor in your area.

7.Request regarding information handling

We kindly request that the information provided by us not be disclosed or
shared with third parties,including data base providers or by posting on websites.

Truly Yours. Thank you.
Fukui Murata MFG. Co., Ltd.

Product Engineering Department Ceramic Capacitor Business Unit
Senior Manager　Takatsugu Sakamoto

Document Number: D08831-A-D7300

Confirmation Letter

TTI

Fukui Murata MFG. Co., Ltd.

4M Change Confirmation

4M Change detailed below is ☐ Subject to Further Discussion. ☐ Accepted.

Product Type: GCJ21BR71H105_A01　GCJ21BR71H105_A14
GCJ32EL81E475_A01　GCJ32ER71H475_A12/A14/A17
GCJ32ER71E106_A18　GCJ32ER7ZB106_A07

Changes: ☑ Man ☐ Machine ☐ Material ☐ Method

Before Change	After Change
Izumo Murata Mfg. Co.,Ltd.	Izumo Murata Mfg. Co., Ltd. Philippines Manufacturing Co. of Murata, Inc

Comments, Questions, etc.

Signature
Date: (MM, DD, YYYY)

Title:

Name:

Sales History

Account Number	Customer Name
D7200	TTI
D7200	TTI
D7200	TTI
D7200	TTI
D7211	TTI
D7300	TTI
D7300	TTI
D7300	TTI
D7300	TTI
D7300	TTI
D7300	TTI
D7300	TTI
D7300	TTI
D7300	TTI
D7300	TTI
D7300	TTI
D7300	TTI
D7300	TTI
D7300	TTI
D7345	TTI
D7370	TTI

Document Number:

Customer Part Number	Murata Part Number
MURGCJ21BR71H105KA01L	GCJ21BR71H105KA01L
MURGCJ32ER71E106KA18L	GCJ32ER71E106KA18L
MURGCJ32ER71H475KA12K	GCJ32ER71H475KA12K
MURGCJ32ER71H475KA12L	GCJ32ER71H475KA12L
MURGCJ32ER71E106KA18L	GCJ32ER71E106KA18L
	GCJ21BR71H105KA01K
	GCJ21BR71H105KA01L
	GCJ21BR71H105MA01K
	GCJ21BR71H105MA01L
	GCJ32EL81E475KA01L
	GCJ32ER71E106KA18K
	GCJ32ER71H475KA12L
MURGCJ21BR71H105KA01L	GCJ21BR71H105KA01L
MURGCJ21BR71H105MA01L	GCJ21BR71H105MA01L
MURGCJ32ER71E106KA18K	GCJ32ER71E106KA18K
MURGCJ32ER71E106KA18L	GCJ32ER71E106KA18L
MURGCJ32ER71H475KA12K	GCJ32ER71H475KA12K
MURGCJ32ER71H475KA12L	GCJ32ER71H475KA12L
MURGCJ32ER71E106KA18L	GCJ32ER71E106KA18L
MURCCB0105BAULF	GCJ21BR71H105KA01L

D08831-A-D7300

Alternative Part Number
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Part Number List

Please find the list below for the target part numbers which are registered as your

Regardless of the list below, all part numbers shall be the target as far as th

Customer Part Number	Murata Part Number
	GCJ21BR71H105KA01K
	GCJ21BR71H105KA01L
	GCJ21BR71H105MA01K
	GCJ21BR71H105MA01L
	GCJ32EL81E475KA01L
	GCJ32ER71E106KA18K
	GCJ32ER71H475KA12L
MURCCB0105BAULF	GCJ21BR71H105KA01L
MURGCJ21BR71H105KA01L	GCJ21BR71H105KA01L
MURGCJ21BR71H105MA01L	GCJ21BR71H105MA01L
MURGCJ32ER71E106KA18K	GCJ32ER71E106KA18K
MURGCJ32ER71E106KA18L	GCJ32ER71E106KA18L
MURGCJ32ER71H475KA12K	GCJ32ER71H475KA12K
MURGCJ32ER71H475KA12L	GCJ32ER71H475KA12L

's in Murata. (Customer Part Number)
ıey are categorized into the Product Type indicated in the Document.

Alternative Part Number
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AEC Q200 Summary of Test Results

Supplier: **Murata**

Submission Date: **July / 2025**

Part Name:

GCJ21BR71H105KA01

Series description:

GCJ / 0805 / X7R Series

Murata Manufacturing Co., Ltd.

INNOVATOR IN ELECTRONICS

Murata P/N: GCJ21BR71H105KA01

Part Series GCJ / 0805 / X7R Series

Operating Temperature: -55℃ ~ +125℃

Test Item	Test Conditions	No of Lots	Qty per Lot	No of Failure
#3 - High Temperature Exposure	1000hr , 150deg C	3	77	0
#4 - Temperature Cycling	1000cycles , -55deg C to 125deg C	3	77	0
#5 - Destructive Physical Analysis		1	10	0
#6 - Moisture Resistance	10cycles(1cycle : 24hr) , 25deg C / 80% RH to 65deg C / 98% RH	3	77	0
#7 - Humidity Bias (I)	1000hr , 85deg C / 85% RH , 1WV	3	77	0
#7 - Humidity Bias (II)	1000hr , 85deg C / 85% RH , 1.3V	3	77	0
#8 - High Temperature Operating Life	1000hr ,125deg C , 1.5WV	3	77	0
#9 - External Visual		all qualification parts		0
#10 - Physical Dimensions		1	30	0
#12 - Resistance to solvents	Test conditions A : 1 part (by volume) of isopropyl alcohol and 3 parts (by volume) of mineral spirits, 25deg C 3min immersion Test conditions B : terpene defluxer, 25deg C 3min immersion Test conditions C : 42 parts(by volume) of water and 1 part (by volume) of propylene glycol monomethylether and 1 part (by volume) of monoethanolamine, 63-70deg C 3min immersion	1	5	0
#13 - Mechanical Shock	Shock pulse : 1500g's, 0.5ms, 4.7m/s, 3 times each of 6 orientations	3	30	0
#14 - Vibration	5g's for 20min, 12 cycles each of 3 orientations, test frequency 10 - 2000Hz	3	30	0
#15 - Resistance to Soldering Heat	Soldering , 260deg C,10sec, immersion	1	30	0
#18 - Solderability	(a) Preheat at 155℃ for 4h. After preheating, immerse the capacitor in a solution of rosin ethanol 25(mass)%. Immerse in Sn-3.0Ag-0.5Cu solder solution at 245+/-5℃ for 5+0/-0.5s.	1	15	0
#19 - Electrical Characterization	1.0+/-0.1kHz, 1.0+/-0.2Vrms (Electrical Characterization) 1.0+/-0.1kHz, 0.1Vrms (Tempareture Characteristics)	3	30	0
#21 - Board Flex	Bend board at 5mm for 60sec pass/fail criteria : cap change within +/-10%	1	30	0
#22 - Terminal Strength	Force of 18N for 60sec	1	30	0
#23 - Beam Load	Apply a force until the part brakes Pass/fail criteria : More than 20N	1	30	0

AEC-Q200 Summary of Test Results

	Murata P/N: GCJ21BR71H105KA01
Manufacturing Location: Philippine Manufacturing Co. of Murata	Lot No: A,B,C
Date before test: 2025/3/15	Date after test: 2025/5/11

#3 - High Temperature Exposure

Test conditions : 1000hr , 150deg C

No. of samples:	77	Initial readings			Final readings			
No. of lots:	3	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Change in capacitance %
Spec limits	lower	0.90		5.0E+02			5.0E+02	-12.50
	upper	1.10	5.00			5.00		12.50
Measurement Statistics	mean	1.017	0.898	1.9E+03	1.009	0.881	1.9E+03	-0.782
	maximum	1.05	0.91	2.1E+03	1.04	0.90	2.0E+03	-0.67
	minimum	0.99	0.88	1.8E+03	0.99	0.87	1.8E+03	-0.89
	standard deviation	0.0081	0.0058	3.8E+01	0.0080	0.0057	2.8E+01	0.0553

Test Data

Lot No	Sample	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Change in capacitance %
A	1	1.05	0.90	1.9E+03	1.04	0.89	1.9E+03	-0.76
	2	1.01	0.89	2.0E+03	1.00	0.88	1.9E+03	-0.70
	3	1.03	0.90	2.0E+03	1.02	0.89	1.9E+03	-0.78
	4	1.02	0.91	2.0E+03	1.01	0.89	1.9E+03	-0.79
	5	1.03	0.90	2.0E+03	1.02	0.89	1.9E+03	-0.78
	6	1.01	0.90	2.0E+03	1.00	0.88	1.9E+03	-0.79
	7	1.03	0.90	1.9E+03	1.02	0.88	1.9E+03	-0.78
	8	1.02	0.91	1.9E+03	1.02	0.89	1.9E+03	-0.68
	9	0.99	0.89	2.0E+03	0.99	0.87	2.0E+03	-0.70
	10	1.02	0.90	2.0E+03	1.01	0.89	1.9E+03	-0.79
	11	1.02	0.91	1.9E+03	1.01	0.89	1.9E+03	-0.78
	12	1.03	0.90	1.9E+03	1.02	0.89	1.9E+03	-0.68
	13	1.03	0.91	2.0E+03	1.02	0.90	1.9E+03	-0.78
	14	1.02	0.90	1.9E+03	1.01	0.89	1.9E+03	-0.79
	15	1.02	0.90	2.0E+03	1.01	0.89	1.9E+03	-0.79
	16	1.02	0.90	2.0E+03	1.01	0.88	1.9E+03	-0.79
	17	1.02	0.91	1.9E+03	1.01	0.89	1.9E+03	-0.79
	18	1.02	0.90	1.9E+03	1.02	0.89	1.9E+03	-0.78
	19	1.01	0.89	2.0E+03	1.01	0.88	1.9E+03	-0.79
	20	1.04	0.90	1.9E+03	1.03	0.88	1.9E+03	-0.67
	21	1.02	0.90	2.0E+03	1.01	0.88	1.9E+03	-0.78
	22	1.02	0.89	1.9E+03	1.01	0.88	1.9E+03	-0.79
	23	1.02	0.89	2.0E+03	1.01	0.88	1.9E+03	-0.78
	24	1.02	0.90	2.0E+03	1.02	0.88	1.9E+03	-0.68
	25	1.02	0.90	1.9E+03	1.01	0.89	1.9E+03	-0.69
	26	1.02	0.90	1.9E+03	1.01	0.89	1.9E+03	-0.78
	27	1.00	0.90	2.0E+03	1.00	0.88	1.9E+03	-0.80
	28	1.00	0.88	2.0E+03	0.99	0.87	2.0E+03	-0.80
	29	1.00	0.89	2.0E+03	1.00	0.87	1.9E+03	-0.70
	30	1.02	0.90	1.9E+03	1.01	0.88	1.9E+03	-0.79
	31	1.02	0.90	1.9E+03	1.01	0.88	1.9E+03	-0.78
	32	1.02	0.90	1.9E+03	1.02	0.88	1.9E+03	-0.78
	33	1.00	0.89	2.0E+03	0.99	0.87	1.9E+03	-0.80
	34	1.02	0.90	1.9E+03	1.01	0.88	1.9E+03	-0.69
	35	1.01	0.89	1.9E+03	1.00	0.88	1.9E+03	-0.79
	36	1.01	0.90	2.0E+03	1.00	0.88	1.9E+03	-0.79
	37	1.02	0.90	2.0E+03	1.01	0.88	1.9E+03	-0.79
	38	1.02	0.90	1.9E+03	1.02	0.88	1.9E+03	-0.78
	39	1.02	0.90	2.0E+03	1.01	0.88	1.9E+03	-0.69
	40	1.01	0.90	2.0E+03	1.00	0.89	1.9E+03	-0.79
	41	1.00	0.90	2.0E+03	0.99	0.89	1.9E+03	-0.80
	42	1.02	0.90	2.0E+03	1.01	0.89	1.9E+03	-0.69
	43	1.01	0.90	2.0E+03	1.00	0.89	2.0E+03	-0.79
	44	1.00	0.89	2.0E+03	0.99	0.87	2.0E+03	-0.70
	45	1.02	0.91	1.9E+03	1.02	0.89	1.9E+03	-0.68
	46	1.02	0.91	2.0E+03	1.01	0.89	1.9E+03	-0.78
	47	1.03	0.91	2.0E+03	1.02	0.89	1.9E+03	-0.78
	48	1.02	0.91	2.0E+03	1.01	0.89	1.9E+03	-0.79
	49	1.02	0.90	1.9E+03	1.02	0.88	1.9E+03	-0.78
	50	1.02	0.91	2.0E+03	1.01	0.89	1.9E+03	-0.79
	51	1.03	0.91	1.9E+03	1.02	0.89	1.9E+03	-0.68
	52	1.02	0.91	2.0E+03	1.01	0.89	1.9E+03	-0.78
	53	1.02	0.90	1.9E+03	1.01	0.88	1.9E+03	-0.79
	54	1.03	0.90	1.9E+03	1.02	0.88	1.9E+03	-0.78
	55	1.04	0.90	1.9E+03	1.03	0.89	1.9E+03	-0.77
	56	1.03	0.90	1.9E+03	1.02	0.89	1.9E+03	-0.68
	57	1.02	0.90	2.0E+03	1.01	0.89	1.9E+03	-0.69
	58	1.02	0.90	2.0E+03	1.01	0.89	1.9E+03	-0.79
	59	1.00	0.89	2.0E+03	0.99	0.88	1.9E+03	-0.80
	60	1.01	0.89	1.9E+03	1.00	0.88	1.9E+03	-0.79
	61	1.02	0.91	1.9E+03	1.02	0.89	1.9E+03	-0.78
	62	1.01	0.90	2.0E+03	1.00	0.88	1.9E+03	-0.79
	63	1.01	0.90	2.0E+03	1.01	0.88	2.0E+03	-0.79
	64	1.01	0.90	2.0E+03	1.00	0.88	1.9E+03	-0.69
	65	1.02	0.90	2.0E+03	1.01	0.88	1.9E+03	-0.79
	66	1.02	0.90	2.0E+03	1.01	0.88	1.9E+03	-0.78
	67	1.02	0.91	2.0E+03	1.01	0.88	1.9E+03	-0.79
	68	1.02	0.90	2.0E+03	1.01	0.88	1.9E+03	-0.79
	69	1.02	0.91	1.9E+03	1.01	0.89	1.9E+03	-0.78
	70	1.02	0.90	1.9E+03	1.01	0.88	1.9E+03	-0.78
	71	1.02	0.90	1.9E+03	1.01	0.88	1.9E+03	-0.78
	72	1.02	0.90	2.0E+03	1.01	0.89	1.9E+03	-0.79
	73	1.03	0.90	2.0E+03	1.02	0.89	1.9E+03	-0.78
	74	1.02	0.90	1.9E+03	1.02	0.89	1.9E+03	-0.68
	75	1.02	0.89	1.9E+03	1.01	0.88	1.9E+03	-0.69
	76	1.01	0.90	2.0E+03	1.00	0.89	1.9E+03	-0.69
	77	1.02	0.90	1.9E+03	1.02	0.88	1.9E+03	-0.68

AEC-Q200 Summary of Test Results

	Murata P/N: GCJ21BR71H105KA01
Manufacturing Location: Philippine Manufacturing Co. of Murata	Lot No: A,B,C
Date before test: 2025/3/15	Date after test: 2025/5/11

#3 - High Temperature Exposure

Test conditions : 1000hr , 150deg C

	1	1.01	0.90	1.9E+03	1.01	0.88	1.9E+03	-0.69
	2	1.01	0.90	1.9E+03	1.01	0.88	1.9E+03	-0.79
	3	1.02	0.90	1.9E+03	1.01	0.88	1.9E+03	-0.79
	4	1.02	0.90	1.9E+03	1.01	0.88	1.9E+03	-0.79
	5	1.02	0.90	1.9E+03	1.01	0.89	1.9E+03	-0.79
	6	1.02	0.90	1.9E+03	1.02	0.88	1.9E+03	-0.78
	7	1.01	0.89	1.9E+03	1.00	0.87	1.9E+03	-0.79
	8	1.01	0.90	1.9E+03	1.01	0.88	1.9E+03	-0.89
	9	1.02	0.89	1.9E+03	1.01	0.88	1.9E+03	-0.79
	10	1.02	0.90	1.9E+03	1.01	0.88	1.9E+03	-0.78
	11	1.02	0.91	1.9E+03	1.01	0.89	1.9E+03	-0.79
	12	1.02	0.90	1.9E+03	1.01	0.88	1.9E+03	-0.78
	13	1.02	0.90	1.9E+03	1.01	0.89	1.9E+03	-0.88
	14	1.01	0.90	1.9E+03	1.00	0.88	1.9E+03	-0.80
	15	1.01	0.90	1.9E+03	1.00	0.88	1.9E+03	-0.69
	16	1.01	0.90	1.9E+03	1.00	0.88	1.9E+03	-0.79
	17	1.01	0.89	1.9E+03	1.00	0.88	1.9E+03	-0.79
	18	1.01	0.89	1.9E+03	1.01	0.88	1.8E+03	-0.79
	19	1.02	0.88	1.9E+03	1.01	0.87	1.9E+03	-0.69
	20	1.01	0.89	1.9E+03	1.01	0.88	1.9E+03	-0.79
	21	0.99	0.90	1.9E+03	0.99	0.88	1.9E+03	-0.70
	22	1.02	0.90	1.9E+03	1.01	0.88	1.9E+03	-0.79
	23	1.01	0.90	1.9E+03	1.01	0.88	1.9E+03	-0.79
	24	1.02	0.89	1.9E+03	1.01	0.88	1.9E+03	-0.79
	25	1.02	0.89	1.9E+03	1.01	0.88	1.9E+03	-0.69
	26	1.00	0.89	1.9E+03	1.00	0.88	1.9E+03	-0.80
	27	1.01	0.89	1.9E+03	1.01	0.88	1.9E+03	-0.79
	28	1.02	0.89	1.9E+03	1.01	0.88	1.9E+03	-0.79
	29	1.02	0.89	1.9E+03	1.01	0.87	1.8E+03	-0.69
	30	1.02	0.90	1.9E+03	1.01	0.88	1.9E+03	-0.79
	31	1.01	0.90	1.9E+03	1.01	0.88	1.9E+03	-0.79
	32	1.02	0.89	1.9E+03	1.01	0.87	1.9E+03	-0.79
	33	1.01	0.89	1.9E+03	1.00	0.88	1.9E+03	-0.79
	34	1.02	0.89	1.9E+03	1.02	0.87	1.9E+03	-0.68
	35	1.03	0.90	1.9E+03	1.02	0.89	1.8E+03	-0.78
	36	1.02	0.90	1.9E+03	1.02	0.89	1.8E+03	-0.68
	37	1.02	0.90	1.9E+03	1.01	0.88	1.9E+03	-0.79
	38	1.01	0.90	1.9E+03	1.00	0.88	1.9E+03	-0.79
B	39	1.02	0.89	1.9E+03	1.01	0.87	1.9E+03	-0.79
	40	1.01	0.90	1.9E+03	1.00	0.88	1.9E+03	-0.79
	41	1.01	0.90	1.9E+03	1.00	0.88	1.9E+03	-0.70
	42	1.01	0.90	1.9E+03	1.01	0.88	1.9E+03	-0.79
	43	1.02	0.90	1.9E+03	1.01	0.88	1.9E+03	-0.78
	44	1.01	0.90	1.9E+03	1.01	0.88	1.9E+03	-0.79
	45	1.02	0.90	1.9E+03	1.01	0.88	1.8E+03	-0.78
	46	1.02	0.90	1.9E+03	1.01	0.88	1.9E+03	-0.78
	47	1.03	0.90	1.9E+03	1.02	0.88	1.8E+03	-0.78
	48	1.02	0.90	1.9E+03	1.01	0.88	1.9E+03	-0.79
	49	1.02	0.90	1.9E+03	1.01	0.88	1.9E+03	-0.79
	50	1.00	0.89	1.9E+03	0.99	0.87	1.9E+03	-0.80
	51	1.00	0.90	1.9E+03	1.00	0.88	1.9E+03	-0.70
	52	1.01	0.89	1.9E+03	1.00	0.87	1.9E+03	-0.70
	53	1.01	0.90	1.9E+03	1.01	0.88	1.9E+03	-0.69
	54	1.02	0.90	1.9E+03	1.01	0.88	1.8E+03	-0.79
	55	1.01	0.90	1.9E+03	1.00	0.88	1.9E+03	-0.70
	56	1.01	0.89	1.9E+03	1.00	0.88	1.9E+03	-0.69
	57	1.01	0.90	1.9E+03	1.00	0.88	1.9E+03	-0.80
	58	1.02	0.90	1.9E+03	1.02	0.88	1.8E+03	-0.78
	59	1.02	0.90	1.9E+03	1.01	0.88	1.9E+03	-0.79
	60	1.02	0.90	1.9E+03	1.01	0.88	1.9E+03	-0.79
	61	1.02	0.90	1.9E+03	1.01	0.88	1.9E+03	-0.79
	62	1.01	0.90	1.9E+03	1.00	0.88	1.9E+03	-0.79
	63	1.01	0.90	1.9E+03	1.00	0.88	1.9E+03	-0.80
	64	1.02	0.90	1.9E+03	1.02	0.88	1.9E+03	-0.78
	65	1.01	0.90	1.9E+03	1.00	0.88	1.9E+03	-0.79
	66	1.01	0.90	1.9E+03	1.00	0.88	1.9E+03	-0.79
	67	1.02	0.90	1.9E+03	1.01	0.88	1.9E+03	-0.69
	68	1.01	0.90	1.9E+03	1.00	0.88	1.9E+03	-0.69
	69	1.01	0.90	1.9E+03	1.01	0.88	1.9E+03	-0.69
	70	1.01	0.89	1.9E+03	1.00	0.87	1.8E+03	-0.79
	71	1.02	0.90	1.9E+03	1.01	0.88	1.8E+03	-0.79
	72	1.03	0.90	1.8E+03	1.02	0.88	1.8E+03	-0.78
	73	1.01	0.89	1.9E+03	1.01	0.88	1.9E+03	-0.69
	74	1.00	0.89	1.9E+03	1.00	0.88	1.9E+03	-0.70
	75	1.01	0.89	1.9E+03	1.00	0.88	1.9E+03	-0.70
	76	1.01	0.89	1.9E+03	1.00	0.89	1.9E+03	-0.69
	77	1.02	0.90	1.9E+03	1.01	0.89	1.9E+03	-0.79

AEC-Q200 Summary of Test Results

	Murata P/N: GCJ21BR71H105KA01
Manufacturing Location: Philippine Manufacturing Co. of Murata	Lot No: A,B,C
Date before test: 2025/3/15	Date after test: 2025/5/11

#3 - High Temperature Exposure

Test conditions : 1000hr , 150deg C

	1	1.02	0.90	2.0E+03	1.01	0.88	1.9E+03	-0.78
	2	1.01	0.89	2.0E+03	1.00	0.88	1.9E+03	-0.79
	3	1.03	0.90	2.0E+03	1.02	0.89	1.9E+03	-0.78
	4	1.01	0.89	2.0E+03	1.00	0.87	1.9E+03	-0.79
	5	1.01	0.90	2.0E+03	1.00	0.88	1.9E+03	-0.89
	6	1.01	0.90	2.0E+03	1.00	0.88	1.9E+03	-0.89
	7	1.02	0.90	2.0E+03	1.01	0.88	1.9E+03	-0.78
	8	1.02	0.90	2.0E+03	1.01	0.88	1.9E+03	-0.88
	9	1.02	0.90	2.0E+03	1.01	0.88	1.9E+03	-0.88
	10	1.01	0.90	2.0E+03	1.00	0.88	1.9E+03	-0.79
	11	1.02	0.90	2.0E+03	1.02	0.89	1.9E+03	-0.78
	12	1.03	0.90	2.0E+03	1.02	0.88	1.9E+03	-0.87
	13	1.01	0.89	2.0E+03	1.00	0.87	1.9E+03	-0.79
	14	1.02	0.90	2.0E+03	1.01	0.89	1.9E+03	-0.88
	15	1.03	0.89	1.9E+03	1.02	0.88	1.9E+03	-0.78
	16	1.02	0.89	2.0E+03	1.01	0.88	1.9E+03	-0.79
	17	1.03	0.90	1.9E+03	1.02	0.89	1.9E+03	-0.87
	18	1.02	0.89	2.0E+03	1.01	0.88	1.9E+03	-0.79
	19	1.02	0.89	2.0E+03	1.01	0.88	1.9E+03	-0.79
	20	1.02	0.89	2.0E+03	1.01	0.88	1.9E+03	-0.78
	21	1.02	0.89	2.0E+03	1.01	0.87	1.9E+03	-0.78
	22	1.01	0.90	2.0E+03	1.01	0.88	1.9E+03	-0.79
	23	1.03	0.90	2.0E+03	1.02	0.88	1.9E+03	-0.78
	24	1.01	0.89	2.0E+03	1.00	0.87	1.9E+03	-0.79
	25	1.01	0.89	2.1E+03	1.00	0.88	1.9E+03	-0.80
	26	1.03	0.90	2.0E+03	1.02	0.88	1.9E+03	-0.78
	27	1.02	0.90	2.0E+03	1.01	0.88	1.9E+03	-0.79
	28	1.02	0.90	2.0E+03	1.01	0.88	1.9E+03	-0.88
	29	1.01	0.89	2.0E+03	1.00	0.87	1.9E+03	-0.79
	30	1.02	0.90	2.0E+03	1.01	0.88	1.9E+03	-0.88
	31	1.02	0.89	2.0E+03	1.01	0.87	1.9E+03	-0.89
	32	1.01	0.89	2.0E+03	1.00	0.87	1.9E+03	-0.79
	33	1.02	0.90	2.0E+03	1.01	0.88	1.9E+03	-0.89
	34	1.03	0.90	2.0E+03	1.02	0.88	1.9E+03	-0.88
	35	1.03	0.90	1.9E+03	1.02	0.88	1.9E+03	-0.78
	36	1.02	0.89	2.0E+03	1.01	0.87	1.9E+03	-0.88
	37	1.03	0.90	2.0E+03	1.02	0.89	1.9E+03	-0.78
	38	1.02	0.90	2.0E+03	1.01	0.88	1.9E+03	-0.88
C	39	1.02	0.90	1.9E+03	1.01	0.88	1.9E+03	-0.78
	40	1.02	0.90	2.0E+03	1.01	0.88	1.9E+03	-0.79
	41	1.02	0.89	2.0E+03	1.01	0.88	1.9E+03	-0.88
	42	1.01	0.90	2.0E+03	1.00	0.88	1.9E+03	-0.79
	43	1.02	0.90	2.0E+03	1.01	0.88	1.9E+03	-0.88
	44	1.02	0.91	2.0E+03	1.01	0.89	1.9E+03	-0.88
	45	1.01	0.90	2.0E+03	1.00	0.88	1.9E+03	-0.79
	46	1.01	0.90	2.0E+03	1.01	0.88	1.9E+03	-0.79
	47	1.02	0.89	2.0E+03	1.01	0.87	1.9E+03	-0.79
	48	1.03	0.90	2.0E+03	1.02	0.88	1.9E+03	-0.88
	49	1.03	0.90	1.9E+03	1.02	0.88	1.9E+03	-0.87
	50	1.04	0.90	1.9E+03	1.03	0.88	1.9E+03	-0.87
	51	1.02	0.90	1.9E+03	1.01	0.88	1.9E+03	-0.88
	52	1.02	0.90	2.0E+03	1.01	0.88	1.9E+03	-0.88
	53	1.02	0.90	2.0E+03	1.01	0.88	1.9E+03	-0.79
	54	1.02	0.90	2.0E+03	1.01	0.88	1.9E+03	-0.88
	55	1.01	0.89	2.0E+03	1.00	0.88	1.9E+03	-0.79
	56	1.02	0.89	2.0E+03	1.01	0.88	1.9E+03	-0.78
	57	1.02	0.90	2.0E+03	1.01	0.88	1.9E+03	-0.88
	58	1.02	0.90	2.0E+03	1.01	0.88	1.9E+03	-0.79
	59	1.04	0.90	1.9E+03	1.03	0.88	1.9E+03	-0.77
	60	1.01	0.90	2.0E+03	1.01	0.88	1.9E+03	-0.79
	61	1.02	0.90	2.0E+03	1.01	0.88	1.9E+03	-0.88
	62	1.01	0.89	2.0E+03	1.00	0.88	1.9E+03	-0.89
	63	1.01	0.90	2.0E+03	1.00	0.88	1.9E+03	-0.89
	64	1.02	0.90	2.0E+03	1.01	0.88	1.9E+03	-0.79
	65	1.01	0.90	2.0E+03	1.00	0.88	1.9E+03	-0.79
	66	1.03	0.91	1.9E+03	1.02	0.89	1.9E+03	-0.88
	67	1.01	0.90	2.0E+03	1.00	0.88	1.9E+03	-0.80
	68	1.01	0.90	2.0E+03	1.00	0.88	1.9E+03	-0.89
	69	1.02	0.90	2.0E+03	1.01	0.89	1.9E+03	-0.78
	70	1.02	0.90	2.0E+03	1.01	0.88	1.9E+03	-0.88
	71	1.03	0.91	2.0E+03	1.02	0.89	1.9E+03	-0.88
	72	1.02	0.90	1.9E+03	1.01	0.88	1.9E+03	-0.79
	73	1.02	0.89	1.9E+03	1.02	0.88	1.9E+03	-0.78
	74	1.03	0.89	1.9E+03	1.02	0.88	1.9E+03	-0.78
	75	1.03	0.89	1.9E+03	1.02	0.88	1.9E+03	-0.78
	76	1.02	0.90	2.0E+03	1.01	0.89	1.9E+03	-0.69
	77	1.02	0.90	1.9E+03	1.02	0.88	1.9E+03	-0.78

AEC-Q200 Summary of Test Results

	Murata P/N: GCJ21BR71H105KA01
Manufacturing Location: Philippine Manufacturing Co. of Murata	Lot No: A,B,C
Date before test: 2025/3/15	Date after test: 2025/4/30

#4 - Temperature Cycling

Test conditions : 1000cycles , -55deg C to 125deg C

No. of samples:	77	Initial readings			Final readings			
No. of lots:	3	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Change in capacitance %
Spec limits	lower	0.90		5.0E+02			5.0E+02	-7.50
	upper	1.10	5.00			5.00		7.50
Measurement Statistics	mean	1.020	0.905	1.9E+03	1.008	0.876	1.9E+03	-1.222
	maximum	1.05	1.38	2.0E+03	1.03	1.38	2.0E+03	-1.05
	minimum	0.99	0.89	1.9E+03	0.98	0.86	1.9E+03	-1.38
	standard deviation	0.0072	0.0320	2.5E+01	0.0071	0.0337	2.7E+01	0.0705

Test Data

Lot No	Sample	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Change in capacitance %
A	1	1.03	0.91	1.9E+03	1.01	0.88	1.9E+03	-1.27
	2	1.02	0.90	2.0E+03	1.01	0.88	2.0E+03	-1.18
	3	1.03	0.91	1.9E+03	1.01	0.88	1.9E+03	-1.27
	4	1.02	0.90	2.0E+03	1.00	0.88	2.0E+03	-1.28
	5	1.02	0.91	1.9E+03	1.01	0.88	2.0E+03	-1.18
	6	1.01	0.91	2.0E+03	1.00	0.88	2.0E+03	-1.18
	7	1.01	0.90	2.0E+03	1.00	0.87	2.0E+03	-1.19
	8	1.02	0.90	2.0E+03	1.01	0.87	2.0E+03	-1.17
	9	1.03	0.90	1.9E+03	1.01	0.87	1.9E+03	-1.17
	10	1.03	0.90	1.9E+03	1.02	0.87	1.9E+03	-1.17
	11	1.03	0.90	1.9E+03	1.02	0.87	1.9E+03	-1.07
	12	1.02	0.90	1.9E+03	1.01	0.87	1.9E+03	-1.18
	13	1.02	0.90	1.9E+03	1.01	0.87	2.0E+03	-1.08
	14	1.03	0.91	1.9E+03	1.02	0.88	1.9E+03	-1.16
	15	1.02	0.90	2.0E+03	1.00	0.87	2.0E+03	-1.18
	16	1.02	0.90	2.0E+03	1.01	0.87	2.0E+03	-1.18
	17	1.02	0.90	1.9E+03	1.01	0.88	1.9E+03	-1.07
	18	1.02	0.90	1.9E+03	1.01	0.87	1.9E+03	-1.18
	19	1.03	0.91	1.9E+03	1.02	0.88	1.9E+03	-1.26
	20	1.01	0.89	1.9E+03	1.00	0.87	2.0E+03	-1.29
	21	1.02	0.90	2.0E+03	1.00	0.87	2.0E+03	-1.18
	22	1.02	0.90	1.9E+03	1.01	0.87	1.9E+03	-1.18
	23	1.01	0.90	2.0E+03	1.00	0.87	2.0E+03	-1.19
	24	1.02	0.89	2.0E+03	1.01	0.87	2.0E+03	-1.17
	25	1.02	0.90	1.9E+03	1.01	0.88	2.0E+03	-1.08
	26	1.02	0.90	1.9E+03	1.01	0.87	1.9E+03	-1.17
	27	1.02	0.90	2.0E+03	1.01	0.88	2.0E+03	-1.07
	28	1.02	0.90	1.9E+03	1.01	0.88	1.9E+03	-1.08
	29	1.01	0.89	2.0E+03	1.00	0.87	2.0E+03	-1.09
	30	1.02	0.90	2.0E+03	1.00	0.88	2.0E+03	-1.18
	31	1.02	0.90	2.0E+03	1.01	0.87	2.0E+03	-1.18
	32	1.04	0.90	1.9E+03	1.03	0.88	1.9E+03	-1.05
	33	1.02	0.90	1.9E+03	1.01	0.87	1.9E+03	-1.08
	34	1.02	0.89	1.9E+03	1.01	0.87	1.9E+03	-1.08
	35	1.01	0.90	2.0E+03	1.00	0.87	2.0E+03	-1.09
	36	1.02	0.89	1.9E+03	1.01	0.87	1.9E+03	-1.17
	37	1.03	0.91	1.9E+03	1.01	0.88	2.0E+03	-1.27
	38	1.02	0.91	2.0E+03	1.01	0.88	2.0E+03	-1.27
	39	1.02	0.90	1.9E+03	1.01	0.87	1.9E+03	-1.18
	40	1.02	0.91	2.0E+03	1.00	0.88	2.0E+03	-1.18
	41	1.02	0.91	2.0E+03	1.01	0.88	2.0E+03	-1.18
	42	1.01	0.91	2.0E+03	1.00	0.88	2.0E+03	-1.19
	43	1.02	0.90	1.9E+03	1.01	0.88	2.0E+03	-1.17
	44	1.01	0.91	2.0E+03	1.00	0.88	2.0E+03	-1.18
	45	1.03	0.91	1.9E+03	1.02	0.88	1.9E+03	-1.26
	46	1.04	0.91	1.9E+03	1.03	0.88	1.9E+03	-1.15
	47	1.03	0.90	1.9E+03	1.02	0.87	2.0E+03	-1.17
	48	1.02	0.90	1.9E+03	1.01	0.87	2.0E+03	-1.18
	49	1.02	0.90	2.0E+03	1.01	0.88	2.0E+03	-1.18
	50	1.02	0.90	1.9E+03	1.00	0.87	1.9E+03	-1.18
	51	1.02	0.91	2.0E+03	1.01	0.88	2.0E+03	-1.18
	52	1.02	0.90	1.9E+03	1.01	0.87	1.9E+03	-1.18
	53	1.02	0.90	1.9E+03	1.01	0.87	1.9E+03	-1.18
	54	1.02	0.90	1.9E+03	1.01	0.88	1.9E+03	-1.18
	55	1.02	0.90	2.0E+03	1.01	0.87	2.0E+03	-1.18
	56	1.02	0.90	1.9E+03	1.01	0.87	1.9E+03	-1.17
	57	1.02	0.90	2.0E+03	1.01	0.87	2.0E+03	-1.08
	58	1.03	0.90	1.9E+03	1.02	0.87	1.9E+03	-1.16
	59	1.02	0.90	2.0E+03	1.01	0.87	2.0E+03	-1.18
	60	1.02	0.91	1.9E+03	1.01	0.88	1.9E+03	-1.18
	61	1.02	0.90	1.9E+03	1.01	0.87	1.9E+03	-1.17
	62	1.01	0.90	1.9E+03	1.00	0.88	1.9E+03	-1.18
	63	1.03	0.90	2.0E+03	1.02	0.88	1.9E+03	-1.17
	64	1.01	0.91	2.0E+03	1.00	0.88	2.0E+03	-1.09
	65	1.02	0.90	2.0E+03	1.00	0.88	2.0E+03	-1.18
	66	1.01	0.90	2.0E+03	1.00	0.87	2.0E+03	-1.09
	67	1.02	0.90	2.0E+03	1.01	0.88	2.0E+03	-1.08
	68	1.01	0.90	1.9E+03	1.00	0.87	1.9E+03	-1.18
	69	1.03	0.90	1.9E+03	1.01	0.87	1.9E+03	-1.17
	70	1.02	0.90	1.9E+03	1.01	0.88	2.0E+03	-1.18
	71	1.03	0.90	1.9E+03	1.02	0.88	1.9E+03	-1.17
	72	1.03	0.89	1.9E+03	1.02	0.87	1.9E+03	-1.17
	73	1.02	0.91	1.9E+03	1.01	0.87	2.0E+03	-1.28
	74	1.02	0.90	1.9E+03	1.01	0.87	1.9E+03	-1.28
	75	1.03	0.91	1.9E+03	1.01	0.88	1.9E+03	-1.27
	76	1.02	0.91	1.9E+03	1.00	0.87	1.9E+03	-1.28
	77	1.01	0.91	1.9E+03	1.00	0.87	1.9E+03	-1.18

AEC-Q200 Summary of Test Results

	Murata P/N: GCJ21BR71H105KA01
Manufacturing Location: Philippine Manufacturing Co. of Murata	Lot No: A,B,C
Date before test: 2025/3/15	Date after test: 2025/4/30

#4 - Temperature Cycling

Test conditions : 1000cycles , -55deg C to 125deg C

	1	1.03	0.90	1.9E+03	1.01	0.87	1.9E+03	-1.36
	2	1.01	0.91	1.9E+03	1.00	0.87	1.9E+03	-1.28
	3	1.02	0.91	1.9E+03	1.01	0.87	1.9E+03	-1.28
	4	1.02	0.90	1.9E+03	1.00	0.87	1.9E+03	-1.38
	5	1.01	0.91	2.0E+03	1.00	0.87	2.0E+03	-1.29
	6	1.03	0.91	1.9E+03	1.02	0.88	1.9E+03	-1.16
	7	1.02	0.90	1.9E+03	1.00	0.87	1.9E+03	-1.38
	8	1.03	0.90	1.9E+03	1.02	0.87	1.9E+03	-1.17
	9	1.01	0.89	1.9E+03	1.00	0.86	1.9E+03	-1.18
	10	1.01	0.90	1.9E+03	1.00	0.87	1.9E+03	-1.29
	11	1.03	0.90	1.9E+03	1.02	0.87	1.9E+03	-1.17
	12	1.02	0.90	1.9E+03	1.01	0.87	1.9E+03	-1.18
	13	1.01	0.90	1.9E+03	1.00	0.87	1.9E+03	-1.09
	14	1.02	0.90	1.9E+03	1.01	0.87	1.9E+03	-1.18
	15	1.03	0.90	1.9E+03	1.02	0.88	1.9E+03	-1.16
	16	1.02	0.90	1.9E+03	1.01	0.88	1.9E+03	-1.18
	17	1.02	0.90	1.9E+03	1.01	0.87	1.9E+03	-1.18
	18	1.02	0.89	1.9E+03	1.01	0.87	1.9E+03	-1.08
	19	1.01	0.90	1.9E+03	1.00	0.87	1.9E+03	-1.28
	20	1.02	0.90	1.9E+03	1.01	0.87	1.9E+03	-1.28
	21	1.01	0.90	1.9E+03	1.00	0.87	1.9E+03	-1.29
	22	1.02	0.90	1.9E+03	1.00	0.87	1.9E+03	-1.28
	23	1.02	0.90	1.9E+03	1.00	0.87	1.9E+03	-1.28
	24	1.02	0.90	1.9E+03	1.01	0.87	1.9E+03	-1.27
	25	1.02	0.90	1.9E+03	1.01	0.87	1.9E+03	-1.27
	26	1.01	0.90	1.9E+03	1.00	0.87	1.9E+03	-1.19
	27	1.02	0.90	1.9E+03	1.01	0.87	1.9E+03	-1.17
	28	1.02	0.89	1.9E+03	1.01	0.86	1.9E+03	-1.18
	29	1.01	0.90	1.9E+03	1.00	0.87	1.9E+03	-1.19
	30	1.01	0.90	1.9E+03	1.00	0.87	1.9E+03	-1.19
	31	0.99	1.38	1.9E+03	0.98	1.38	1.9E+03	-1.12
	32	1.02	0.90	1.9E+03	1.01	0.87	1.9E+03	-1.08
	33	1.02	0.89	1.9E+03	1.01	0.87	1.9E+03	-1.17
	34	1.02	0.90	1.9E+03	1.00	0.87	1.9E+03	-1.18
	35	1.01	0.90	1.9E+03	1.00	0.87	1.9E+03	-1.09
	36	1.02	0.90	1.9E+03	1.01	0.87	1.9E+03	-1.18
	37	1.02	0.90	1.9E+03	1.00	0.87	1.9E+03	-1.28
	38	1.01	0.90	1.9E+03	1.00	0.87	1.9E+03	-1.29
B	39	1.02	0.90	1.9E+03	1.00	0.87	1.9E+03	-1.28
	40	1.05	0.91	1.9E+03	1.03	0.88	1.9E+03	-1.24
	41	1.03	0.91	1.9E+03	1.02	0.88	1.9E+03	-1.17
	42	1.02	0.90	1.9E+03	1.01	0.87	1.9E+03	-1.18
	43	1.02	0.90	1.9E+03	1.01	0.87	1.9E+03	-1.27
	44	1.02	0.90	1.9E+03	1.01	0.87	1.9E+03	-1.28
	45	1.01	0.90	1.9E+03	1.00	0.87	1.9E+03	-1.19
	46	1.02	0.90	1.9E+03	1.01	0.87	1.9E+03	-1.17
	47	1.01	0.90	1.9E+03	1.00	0.87	1.9E+03	-1.19
	48	1.03	0.90	1.9E+03	1.01	0.87	1.9E+03	-1.17
	49	1.01	0.90	1.9E+03	1.00	0.87	1.9E+03	-1.19
	50	1.02	0.90	1.9E+03	1.01	0.87	1.9E+03	-1.27
	51	1.02	0.90	1.9E+03	1.01	0.87	1.9E+03	-1.18
	52	1.02	0.90	1.9E+03	1.01	0.87	1.9E+03	-1.27
	53	1.02	0.89	1.9E+03	1.00	0.87	1.9E+03	-1.18
	54	1.02	0.90	1.9E+03	1.00	0.87	1.9E+03	-1.18
	55	1.02	0.91	1.9E+03	1.01	0.87	1.9E+03	-1.17
	56	1.01	0.90	2.0E+03	1.00	0.87	2.0E+03	-1.28
	57	1.02	0.90	1.9E+03	1.00	0.87	1.9E+03	-1.28
	58	1.03	0.91	1.9E+03	1.02	0.87	1.9E+03	-1.26
	59	1.02	0.90	1.9E+03	1.01	0.87	1.9E+03	-1.27
	60	1.02	0.89	1.9E+03	1.01	0.87	1.9E+03	-1.27
	61	1.02	0.90	1.9E+03	1.01	0.87	1.9E+03	-1.27
	62	1.02	0.90	1.9E+03	1.01	0.87	1.9E+03	-1.17
	63	1.01	0.90	1.9E+03	1.00	0.87	1.9E+03	-1.18
	64	1.02	0.90	1.9E+03	1.01	0.87	1.9E+03	-1.27
	65	1.01	0.90	1.9E+03	1.00	0.87	1.9E+03	-1.19
	66	1.01	0.89	1.9E+03	1.00	0.87	1.9E+03	-1.19
	67	1.02	0.89	1.9E+03	1.01	0.87	1.9E+03	-1.17
	68	1.01	0.90	1.9E+03	1.00	0.87	1.9E+03	-1.18
	69	1.02	0.90	1.9E+03	1.01	0.87	1.9E+03	-1.17
	70	1.03	0.90	1.9E+03	1.02	0.88	1.9E+03	-1.17
	71	1.02	0.90	1.9E+03	1.01	0.87	1.9E+03	-1.17
	72	1.01	0.89	1.9E+03	1.00	0.87	1.9E+03	-1.19
	73	1.02	0.90	1.9E+03	1.01	0.87	1.9E+03	-1.27
	74	1.02	0.89	1.9E+03	1.01	0.87	1.9E+03	-1.28
	75	1.02	0.89	1.9E+03	1.01	0.87	1.9E+03	-1.27
	76	1.01	0.89	1.9E+03	1.00	0.87	1.9E+03	-1.19
	77	1.01	0.89	1.9E+03	1.00	0.87	1.9E+03	-1.19

AEC-Q200 Summary of Test Results

	Murata P/N: GCJ21BR71H105KA01
Manufacturing Location: Philippine Manufacturing Co. of Murata	Lot No: A,B,C
Date before test: 2025/3/15	Date after test: 2025/4/30

#4 - Temperature Cycling

Test conditions : 1000cycles , -55deg C to 125deg C

	1	1.01	0.90	1.9E+03	1.00	0.87	2.0E+03	-1.19
	2	1.02	0.90	1.9E+03	1.01	0.87	1.9E+03	-1.28
	3	1.02	0.90	1.9E+03	1.01	0.87	1.9E+03	-1.27
	4	1.02	0.90	1.9E+03	1.01	0.87	1.9E+03	-1.27
	5	1.01	0.91	1.9E+03	1.00	0.87	2.0E+03	-1.28
	6	1.02	0.90	1.9E+03	1.00	0.87	1.9E+03	-1.28
	7	1.03	0.91	1.9E+03	1.02	0.88	2.0E+03	-1.26
	8	1.02	0.91	1.9E+03	1.01	0.88	1.9E+03	-1.17
	9	1.03	0.91	1.9E+03	1.02	0.88	1.9E+03	-1.26
	10	1.02	0.91	1.9E+03	1.01	0.88	1.9E+03	-1.27
	11	1.03	0.90	1.9E+03	1.01	0.87	2.0E+03	-1.27
	12	1.03	0.91	1.9E+03	1.02	0.88	1.9E+03	-1.26
	13	1.02	0.91	1.9E+03	1.00	0.87	1.9E+03	-1.38
	14	1.02	0.91	1.9E+03	1.01	0.88	2.0E+03	-1.28
	15	1.03	0.91	1.9E+03	1.01	0.88	2.0E+03	-1.27
	16	1.04	0.92	1.9E+03	1.02	0.89	2.0E+03	-1.35
	17	1.03	0.91	1.9E+03	1.02	0.88	2.0E+03	-1.26
	18	1.02	0.91	1.9E+03	1.01	0.88	2.0E+03	-1.27
	19	1.02	0.90	1.9E+03	1.01	0.88	2.0E+03	-1.27
	20	1.03	0.90	1.9E+03	1.02	0.88	2.0E+03	-1.26
	21	1.02	0.90	1.9E+03	1.01	0.88	2.0E+03	-1.17
	22	1.03	0.91	1.9E+03	1.02	0.88	1.9E+03	-1.17
	23	1.02	0.90	1.9E+03	1.01	0.87	1.9E+03	-1.27
	24	1.03	0.90	1.9E+03	1.01	0.87	1.9E+03	-1.27
	25	1.03	0.90	1.9E+03	1.02	0.88	1.9E+03	-1.26
	26	1.01	0.90	2.0E+03	1.00	0.87	2.0E+03	-1.19
	27	1.03	0.90	1.9E+03	1.02	0.88	2.0E+03	-1.26
	28	1.02	0.90	1.9E+03	1.01	0.88	1.9E+03	-1.27
	29	1.02	0.90	1.9E+03	1.01	0.87	1.9E+03	-1.27
	30	1.02	0.91	1.9E+03	1.01	0.88	1.9E+03	-1.18
	31	1.02	0.90	1.9E+03	1.01	0.87	1.9E+03	-1.28
	32	1.01	0.90	2.0E+03	1.00	0.87	2.0E+03	-1.28
	33	1.02	0.90	2.0E+03	1.00	0.88	2.0E+03	-1.28
	34	1.02	0.91	1.9E+03	1.01	0.88	1.9E+03	-1.18
	35	1.03	0.90	1.9E+03	1.02	0.88	1.9E+03	-1.26
	36	1.02	0.90	1.9E+03	1.01	0.88	2.0E+03	-1.27
	37	1.01	0.91	2.0E+03	1.00	0.87	2.0E+03	-1.28
	38	1.02	0.91	1.9E+03	1.01	0.87	2.0E+03	-1.27
C	39	1.01	0.91	1.9E+03	1.00	0.87	2.0E+03	-1.29
	40	1.04	0.92	1.9E+03	1.02	0.88	1.9E+03	-1.35
	41	1.03	0.91	1.9E+03	1.01	0.88	1.9E+03	-1.36
	42	1.01	0.91	2.0E+03	1.00	0.88	2.0E+03	-1.29
	43	1.03	0.91	2.0E+03	1.01	0.88	2.0E+03	-1.36
	44	1.04	0.91	1.9E+03	1.02	0.88	2.0E+03	-1.35
	45	1.02	0.91	1.9E+03	1.01	0.88	2.0E+03	-1.27
	46	1.01	0.92	2.0E+03	1.00	0.88	2.0E+03	-1.28
	47	1.02	0.92	1.9E+03	1.01	0.88	2.0E+03	-1.37
	48	1.02	0.91	1.9E+03	1.00	0.88	2.0E+03	-1.28
	49	1.02	0.91	1.9E+03	1.01	0.88	2.0E+03	-1.28
	50	1.02	0.91	1.9E+03	1.01	0.88	2.0E+03	-1.28
	51	1.03	0.91	1.9E+03	1.01	0.88	2.0E+03	-1.36
	52	1.03	0.91	1.9E+03	1.01	0.87	2.0E+03	-1.37
	53	1.02	0.91	1.9E+03	1.01	0.88	1.9E+03	-1.27
	54	1.02	0.91	1.9E+03	1.00	0.87	2.0E+03	-1.28
	55	1.03	0.91	1.9E+03	1.02	0.88	1.9E+03	-1.26
	56	1.02	0.91	1.9E+03	1.01	0.88	2.0E+03	-1.27
	57	1.02	0.90	2.0E+03	1.01	0.87	2.0E+03	-1.28
	58	1.02	0.91	2.0E+03	1.01	0.88	2.0E+03	-1.27
	59	1.01	0.90	2.0E+03	1.00	0.87	2.0E+03	-1.28
	60	1.03	0.91	1.9E+03	1.01	0.88	2.0E+03	-1.27
	61	1.02	0.91	1.9E+03	1.01	0.88	2.0E+03	-1.28
	62	1.03	0.91	1.9E+03	1.02	0.88	1.9E+03	-1.26
	63	1.04	0.91	1.9E+03	1.03	0.88	1.9E+03	-1.25
	64	1.02	0.91	1.9E+03	1.01	0.88	1.9E+03	-1.27
	65	1.02	0.91	1.9E+03	1.01	0.88	2.0E+03	-1.27
	66	1.03	0.91	1.9E+03	1.01	0.88	1.9E+03	-1.27
	67	1.02	0.91	2.0E+03	1.01	0.88	2.0E+03	-1.27
	68	1.03	0.91	1.9E+03	1.02	0.88	1.9E+03	-1.26
	69	1.03	0.91	1.9E+03	1.01	0.88	2.0E+03	-1.27
	70	1.03	0.91	1.9E+03	1.01	0.88	2.0E+03	-1.27
	71	1.02	0.91	1.9E+03	1.01	0.88	2.0E+03	-1.27
	72	1.03	0.90	1.9E+03	1.01	0.87	2.0E+03	-1.27
	73	1.02	0.90	2.0E+03	1.00	0.88	1.9E+03	-1.28
	74	1.01	0.90	1.9E+03	1.00	0.87	1.9E+03	-1.28
	75	1.01	0.90	2.0E+03	1.00	0.87	2.0E+03	-1.29
	76	1.02	0.91	2.0E+03	1.01	0.88	2.0E+03	-1.28
	77	1.02	0.91	1.9E+03	1.01	0.88	1.9E+03	-1.37

AEC-Q200 Summary of Test Results

	Murata P/N: GCJ21BR71H105KA01
Manufacturing Location: Philippine Manufacturing Co. of Murata	Lot No: A
Date before test: 2025/3/20	Date after test: 2025/5/16

#5 - Destructive Physical Analysis

Number of Samples: 10 Number of Lots: 1		Number of failures: 0
Lot No	Sample	Result (pass/fail)
A	1	pass
	2	pass
	3	pass
	4	pass
	5	pass
	6	pass
	7	pass
	8	pass
	9	pass
	10	pass

AEC-Q200 Summary of Test Results

	Murata P/N: GCJ21BR71H105KA01
Manufacturing Location: Philippine Manufacturing Co. of Murata	Lot No: A,B,C
Date before test: 2025/3/30	Date after test: 2025/4/14

#6 - Moisture Resistance

Test conditions : 10cycles(1cycle : 24hr) , 25deg C / 80% RH to 65deg C / 98% RH

No. of samples:	77	Initial readings			Final readings			
No. of lots:	3	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Change in capacitance %
Spec limits	lower	0.90		5.0E+02			5.0E+02	-10.00
	upper	1.10	5.00			5.00		10.00
Measurement Statistics	mean	1.011	0.852	1.9E+03	1.007	0.827	2.0E+03	-0.385
	maximum	1.03	0.97	2.0E+03	1.04	0.97	2.1E+03	1.21
	minimum	0.99	0.82	1.8E+03	0.99	0.81	1.9E+03	-1.25
	standard deviation	0.0090	0.0130	3.5E+01	0.0089	0.0157	2.9E+01	1.0972

Test Data

Lot No	Sample	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Change in capacitance %
A	1	1.01	0.85	1.9E+03	1.02	0.84	2.0E+03	1.20
	2	1.00	0.86	1.9E+03	1.01	0.83	2.0E+03	1.14
	3	1.02	0.86	1.9E+03	1.03	0.82	2.0E+03	1.14
	4	0.99	0.85	1.9E+03	1.01	0.82	2.1E+03	1.12
	5	1.01	0.85	1.9E+03	1.02	0.82	2.0E+03	1.18
	6	1.01	0.85	1.9E+03	1.02	0.82	2.0E+03	1.17
	7	1.00	0.85	1.9E+03	1.01	0.82	2.0E+03	1.16
	8	1.00	0.85	1.9E+03	1.01	0.82	2.0E+03	1.17
	9	1.00	0.85	1.9E+03	1.01	0.82	2.0E+03	1.18
	10	1.00	0.85	1.9E+03	1.01	0.82	2.0E+03	1.17
	11	1.01	0.85	1.9E+03	1.02	0.82	2.0E+03	1.18
	12	1.00	0.85	1.9E+03	1.01	0.82	2.0E+03	1.18
	13	1.00	0.85	1.9E+03	1.02	0.82	2.0E+03	1.20
	14	1.00	0.85	1.9E+03	1.01	0.82	2.0E+03	1.19
	15	1.00	0.85	1.9E+03	1.01	0.82	2.0E+03	1.14
	16	1.01	0.85	1.9E+03	1.02	0.82	2.0E+03	1.20
	17	0.99	0.85	1.9E+03	1.00	0.82	2.0E+03	1.16
	18	1.00	0.85	1.9E+03	1.01	0.82	2.0E+03	1.17
	19	1.01	0.85	1.9E+03	1.02	0.82	2.0E+03	1.16
	20	0.99	0.85	1.9E+03	1.00	0.82	2.0E+03	1.18
	21	1.01	0.85	1.9E+03	1.02	0.82	2.0E+03	1.16
	22	1.01	0.86	1.9E+03	1.02	0.82	2.0E+03	1.18
	23	1.00	0.85	1.9E+03	1.01	0.82	2.0E+03	1.18
	24	1.00	0.85	1.9E+03	1.01	0.82	2.0E+03	1.13
	25	1.00	0.85	1.9E+03	1.01	0.82	2.0E+03	1.14
	26	1.01	0.85	1.9E+03	1.02	0.82	2.0E+03	1.16
	27	1.01	0.86	1.9E+03	1.02	0.82	2.0E+03	1.18
	28	1.00	0.85	1.9E+03	1.01	0.82	2.0E+03	1.18
	29	1.01	0.86	1.9E+03	1.02	0.82	2.0E+03	1.18
	30	1.00	0.85	1.9E+03	1.01	0.82	2.0E+03	1.17
	31	1.00	0.85	1.9E+03	1.02	0.82	2.0E+03	1.18
	32	1.01	0.85	1.9E+03	1.02	0.82	2.0E+03	1.14
	33	1.00	0.85	1.9E+03	1.01	0.82	2.0E+03	1.19
	34	1.01	0.85	1.9E+03	1.03	0.82	2.0E+03	1.16
	35	1.00	0.85	1.9E+03	1.01	0.81	2.0E+03	1.19
	36	0.99	0.85	1.9E+03	1.00	0.82	2.0E+03	1.18
	37	1.01	0.86	1.9E+03	1.02	0.82	2.0E+03	1.14
	38	1.00	0.85	1.9E+03	1.01	0.82	2.0E+03	1.16
	39	1.01	0.86	1.9E+03	1.03	0.82	2.0E+03	1.14
	40	1.00	0.86	1.9E+03	1.01	0.82	2.0E+03	1.16
	41	1.00	0.85	1.9E+03	1.01	0.82	2.0E+03	1.17
	42	0.99	0.86	2.0E+03	1.00	0.83	2.1E+03	1.12
	43	1.01	0.86	1.9E+03	1.02	0.83	2.0E+03	1.16
	44	1.00	0.86	1.9E+03	1.01	0.83	2.0E+03	1.10
	45	1.01	0.87	1.9E+03	1.02	0.83	2.0E+03	1.16
	46	1.00	0.86	1.9E+03	1.01	0.83	2.0E+03	1.13
	47	0.99	0.86	1.9E+03	1.00	0.82	2.0E+03	1.17
	48	1.03	0.86	1.9E+03	1.04	0.83	2.0E+03	1.19
	49	1.00	0.86	1.9E+03	1.01	0.83	2.0E+03	1.18
	50	1.01	0.86	1.9E+03	1.02	0.82	2.0E+03	1.17
	51	1.01	0.85	1.9E+03	1.02	0.82	2.0E+03	1.21
	52	1.00	0.85	1.9E+03	1.01	0.82	2.0E+03	1.19
	53	1.01	0.85	1.9E+03	1.02	0.82	2.0E+03	1.20
	54	1.01	0.85	1.9E+03	1.03	0.82	2.0E+03	1.21
	55	1.00	0.86	1.9E+03	1.01	0.83	2.0E+03	1.18
	56	0.99	0.86	1.9E+03	1.00	0.83	2.0E+03	1.12
	57	1.01	0.86	1.9E+03	1.02	0.82	2.0E+03	1.18
	58	0.99	0.86	1.9E+03	1.00	0.83	2.0E+03	1.15
	59	1.00	0.86	1.9E+03	1.02	0.82	2.0E+03	1.13
	60	0.99	0.86	1.9E+03	1.01	0.83	2.0E+03	1.13
	61	1.00	0.86	1.9E+03	1.01	0.83	2.0E+03	1.17
	62	0.99	0.86	1.9E+03	1.00	0.82	2.0E+03	1.12
	63	1.00	0.86	1.9E+03	1.02	0.83	2.0E+03	1.13
	64	1.01	0.85	1.9E+03	1.02	0.82	2.0E+03	1.14
	65	1.01	0.96	1.9E+03	1.03	0.83	2.0E+03	1.18
	66	1.00	0.97	1.9E+03	1.01	0.82	2.0E+03	1.18
	67	1.01	0.86	1.9E+03	1.02	0.82	2.0E+03	1.20
	68	1.00	0.86	1.9E+03	1.01	0.82	2.0E+03	1.14
	69	1.01	0.85	1.9E+03	1.02	0.82	2.0E+03	1.16
	70	1.01	0.85	1.9E+03	1.02	0.82	2.0E+03	1.17
	71	1.00	0.85	1.9E+03	1.01	0.82	2.0E+03	1.19
	72	1.00	0.85	1.9E+03	1.01	0.82	2.0E+03	1.16
	73	1.00	0.85	1.9E+03	1.01	0.83	2.0E+03	1.16
	74	0.99	0.85	1.9E+03	1.01	0.83	2.0E+03	1.16
	75	1.00	0.85	1.9E+03	1.01	0.82	2.0E+03	1.11
	76	1.00	0.85	1.9E+03	1.01	0.82	2.0E+03	1.10
	77	1.01	0.86	1.9E+03	1.02	0.83	2.0E+03	1.11

AEC-Q200 Summary of Test Results

	Murata P/N: GCJ21BR71H105KA01
Manufacturing Location: Philippine Manufacturing Co. of Murata	Lot No: A,B,C
Date before test: 2025/3/30	Date after test: 2025/4/14

#6 - Moisture Resistance

Test conditions : 10cycles(1cycle : 24hr) , 25deg C / 80% RH to 65deg C / 98% RH

	1	1.01	0.86	2.0E+03	1.00	0.83	2.0E+03	-1.25
	2	1.01	0.86	1.9E+03	1.00	0.83	2.0E+03	-1.16
	3	1.01	0.85	1.9E+03	1.00	0.82	2.0E+03	-1.18
	4	1.02	0.86	1.9E+03	1.01	0.83	2.0E+03	-1.18
	5	1.01	0.85	2.0E+03	1.00	0.82	2.0E+03	-1.18
	6	1.02	0.85	1.9E+03	1.01	0.82	2.0E+03	-1.23
	7	1.01	0.85	2.0E+03	1.00	0.83	2.0E+03	-1.22
	8	1.02	0.86	1.9E+03	1.00	0.83	2.0E+03	-1.17
	9	1.01	0.85	1.9E+03	1.00	0.83	2.0E+03	-1.21
	10	1.01	0.85	1.9E+03	0.99	0.82	2.0E+03	-1.15
	11	1.03	0.85	1.9E+03	1.01	0.82	1.9E+03	-1.19
	12	1.02	0.85	1.9E+03	1.01	0.82	2.0E+03	-1.22
	13	1.01	0.85	1.9E+03	0.99	0.83	2.0E+03	-1.17
	14	1.01	0.85	1.9E+03	0.99	0.82	2.0E+03	-1.16
	15	1.01	0.85	1.9E+03	1.00	0.83	2.0E+03	-1.14
	16	1.01	0.85	1.9E+03	1.00	0.82	2.0E+03	-1.18
	17	1.03	0.86	1.9E+03	1.02	0.83	1.9E+03	-1.22
	18	1.01	0.86	1.9E+03	1.00	0.83	2.0E+03	-1.19
	19	1.01	0.86	1.9E+03	1.00	0.83	2.0E+03	-1.23
	20	1.02	0.87	1.9E+03	1.00	0.84	2.0E+03	-1.14
	21	1.01	0.86	1.9E+03	1.00	0.83	2.0E+03	-1.17
	22	1.02	0.85	1.9E+03	1.01	0.83	2.0E+03	-1.20
	23	1.01	0.86	1.9E+03	1.00	0.83	2.0E+03	-1.16
	24	1.01	0.86	1.9E+03	0.99	0.83	2.0E+03	-1.14
	25	1.00	0.85	2.0E+03	0.99	0.82	2.0E+03	-1.15
	26	1.02	0.86	1.9E+03	1.00	0.83	2.0E+03	-1.20
	27	1.01	0.86	1.9E+03	0.99	0.83	2.0E+03	-1.20
	28	1.00	0.86	1.9E+03	0.99	0.83	2.0E+03	-1.15
	29	1.01	0.85	1.9E+03	1.00	0.83	2.0E+03	-1.21
	30	1.01	0.85	1.9E+03	1.00	0.82	2.0E+03	-1.18
	31	1.01	0.85	1.9E+03	0.99	0.83	2.0E+03	-1.17
	32	1.02	0.85	1.9E+03	1.00	0.83	2.0E+03	-1.21
	33	1.01	0.85	1.9E+03	1.00	0.82	2.0E+03	-1.21
	34	1.01	0.85	1.9E+03	1.00	0.82	2.0E+03	-1.20
	35	1.02	0.85	1.9E+03	1.00	0.82	2.0E+03	-1.20
	36	1.02	0.85	1.9E+03	1.00	0.82	2.0E+03	-1.21
	37	1.00	0.86	2.0E+03	0.99	0.83	2.0E+03	-1.18
	38	1.02	0.85	1.9E+03	1.01	0.83	2.0E+03	-1.21
B	39	1.02	0.86	1.9E+03	1.01	0.83	2.0E+03	-1.15
	40	1.02	0.86	1.9E+03	1.00	0.83	2.0E+03	-1.20
	41	1.00	0.86	2.0E+03	0.99	0.83	2.0E+03	-1.16
	42	1.01	0.86	1.9E+03	1.00	0.83	2.0E+03	-1.12
	43	1.01	0.86	2.0E+03	1.00	0.83	2.0E+03	-1.18
	44	1.01	0.86	1.9E+03	1.00	0.84	2.0E+03	-1.22
	45	1.02	0.86	1.9E+03	1.00	0.83	2.0E+03	-1.23
	46	1.02	0.86	1.9E+03	1.00	0.83	2.0E+03	-1.22
	47	1.02	0.86	2.0E+03	1.00	0.83	2.0E+03	-1.18
	48	1.01	0.86	1.9E+03	1.00	0.83	2.0E+03	-1.18
	49	1.02	0.86	1.9E+03	1.01	0.83	2.0E+03	-1.18
	50	1.01	0.85	1.9E+03	0.99	0.82	2.0E+03	-1.21
	51	1.01	0.85	1.9E+03	1.00	0.82	2.0E+03	-1.19
	52	1.01	0.86	1.9E+03	1.00	0.82	2.0E+03	-1.17
	53	1.02	0.86	1.9E+03	1.01	0.83	2.0E+03	-1.22
	54	1.01	0.86	1.9E+03	1.00	0.83	2.0E+03	-1.17
	55	1.01	0.86	1.9E+03	1.00	0.84	2.0E+03	-1.19
	56	1.00	0.86	1.9E+03	0.99	0.83	2.0E+03	-1.22
	57	1.02	0.86	1.9E+03	1.01	0.96	2.0E+03	-1.17
	58	1.01	0.86	1.9E+03	1.00	0.84	2.0E+03	-1.17
	59	1.01	0.87	1.9E+03	1.00	0.84	2.0E+03	-1.17
	60	1.01	0.86	1.9E+03	0.99	0.85	2.0E+03	-1.20
	61	1.02	0.86	1.9E+03	1.00	0.83	2.0E+03	-1.21
	62	1.01	0.86	1.9E+03	1.00	0.84	2.0E+03	-1.16
	63	1.02	0.86	1.9E+03	1.00	0.97	2.0E+03	-1.15
	64	1.01	0.86	1.9E+03	1.00	0.84	2.0E+03	-1.17
	65	1.00	0.86	1.9E+03	0.99	0.83	2.0E+03	-1.15
	66	1.02	0.85	1.9E+03	1.00	0.83	2.0E+03	-1.16
	67	1.01	0.85	1.9E+03	1.00	0.83	2.0E+03	-1.21
	68	1.02	0.85	1.9E+03	1.01	0.83	2.0E+03	-1.21
	69	1.01	0.85	2.0E+03	1.00	0.83	2.0E+03	-1.17
	70	1.02	0.85	1.9E+03	1.00	0.82	2.0E+03	-1.19
	71	1.01	0.86	1.9E+03	1.00	0.83	2.0E+03	-1.23
	72	1.02	0.85	1.9E+03	1.00	0.82	2.0E+03	-1.24
	73	1.00	0.86	1.9E+03	0.99	0.83	2.0E+03	-1.18
	74	1.02	0.86	1.9E+03	1.01	0.84	2.0E+03	-1.17
	75	1.01	0.86	1.9E+03	1.00	0.83	2.0E+03	-1.19
	76	1.01	0.86	1.9E+03	1.00	0.83	2.0E+03	-1.21
	77	1.01	0.86	1.9E+03	1.00	0.83	2.0E+03	-1.14

AEC-Q200 Summary of Test Results

	Murata P/N: GCJ21BR71H105KA01
Manufacturing Location: Philippine Manufacturing Co. of Murata	Lot No: A,B,C
Date before test: 2025/3/30	Date after test: 2025/4/14

#6 - Moisture Resistance

Test conditions : 10cycles(1cycle : 24hr) , 25deg C / 80% RH to 65deg C / 98% RH

	1	1.02	0.85	1.9E+03	1.01	0.83	2.0E+03	-1.21
	2	1.02	0.85	1.9E+03	1.01	0.82	2.0E+03	-1.14
	3	1.02	0.84	1.9E+03	1.01	0.82	2.0E+03	-1.15
	4	1.02	0.84	1.9E+03	1.01	0.83	2.0E+03	-1.16
	5	1.01	0.84	1.9E+03	1.00	0.82	2.0E+03	-1.12
	6	1.03	0.84	1.8E+03	1.01	0.83	2.0E+03	-1.15
	7	1.01	0.84	1.9E+03	1.00	0.82	2.0E+03	-1.13
	8	1.01	0.84	1.9E+03	1.00	0.82	2.0E+03	-1.09
	9	1.01	0.84	1.9E+03	1.00	0.82	2.0E+03	-1.08
	10	1.01	0.84	1.9E+03	1.00	0.83	2.0E+03	-1.07
	11	1.01	0.84	1.9E+03	1.00	0.83	2.0E+03	-1.12
	12	1.03	0.85	1.8E+03	1.02	0.83	1.9E+03	-1.09
	13	1.02	0.84	1.9E+03	1.01	0.83	2.0E+03	-1.10
	14	1.00	0.84	1.9E+03	0.99	0.82	2.0E+03	-1.11
	15	1.02	0.84	1.8E+03	1.01	0.82	1.9E+03	-1.16
	16	1.02	0.84	1.8E+03	1.01	0.85	2.0E+03	-1.16
	17	1.01	0.85	1.9E+03	1.00	0.83	2.0E+03	-1.15
	18	1.02	0.85	1.8E+03	1.01	0.83	2.0E+03	-1.13
	19	1.01	0.85	1.8E+03	1.00	0.82	1.9E+03	-1.15
	20	1.02	0.85	1.9E+03	1.01	0.83	2.0E+03	-1.16
	21	1.03	0.85	1.8E+03	1.01	0.83	1.9E+03	-1.15
	22	1.01	0.84	1.8E+03	1.00	0.83	2.0E+03	-1.18
	23	1.01	0.85	1.9E+03	1.00	0.83	2.0E+03	-1.17
	24	1.01	0.85	1.9E+03	1.00	0.83	2.0E+03	-1.12
	25	1.02	0.85	1.9E+03	1.01	0.83	2.0E+03	-1.15
	26	1.01	0.85	1.9E+03	1.00	0.83	2.0E+03	-1.11
	27	1.01	0.84	1.8E+03	1.00	0.83	2.0E+03	-1.14
	28	1.02	0.85	1.8E+03	1.01	0.84	1.9E+03	-1.08
	29	1.02	0.84	1.9E+03	1.01	0.83	2.0E+03	-1.10
	30	1.02	0.84	1.8E+03	1.01	0.83	1.9E+03	-1.10
	31	1.02	0.84	1.8E+03	1.01	0.82	1.9E+03	-1.12
	32	1.02	0.84	1.9E+03	1.00	0.82	2.0E+03	-1.15
	33	1.02	0.84	1.9E+03	1.00	0.82	2.0E+03	-1.16
	34	1.02	0.85	1.9E+03	1.00	0.83	2.0E+03	-1.13
	35	1.02	0.84	1.9E+03	1.01	0.82	2.0E+03	-1.17
	36	1.01	0.85	1.9E+03	1.00	0.93	2.0E+03	-1.18
	37	1.02	0.84	1.9E+03	1.01	0.82	2.0E+03	-1.19
	38	1.00	0.83	1.9E+03	0.99	0.81	2.0E+03	-1.20
C	39	1.01	0.84	1.9E+03	1.00	0.82	2.0E+03	-1.14
	40	1.01	0.84	1.8E+03	1.00	0.82	1.9E+03	-1.16
	41	1.01	0.84	1.9E+03	1.00	0.82	2.0E+03	-1.12
	42	1.03	0.83	1.8E+03	1.01	0.82	1.9E+03	-1.12
	43	1.03	0.83	1.8E+03	1.02	0.82	1.9E+03	-1.10
	44	1.02	0.84	1.9E+03	1.01	0.82	2.0E+03	-1.14
	45	1.01	0.84	1.9E+03	0.99	0.82	2.0E+03	-1.11
	46	1.02	0.84	1.9E+03	1.01	0.82	2.0E+03	-1.09
	47	1.01	0.84	1.9E+03	1.00	0.83	2.0E+03	-1.13
	48	1.02	0.84	1.8E+03	1.01	0.82	2.0E+03	-1.06
	49	1.02	0.84	1.8E+03	1.01	0.83	1.9E+03	-1.09
	50	1.02	0.84	1.8E+03	1.01	0.83	2.0E+03	-1.11
	51	1.01	0.84	1.9E+03	1.00	0.82	2.0E+03	-1.10
	52	1.01	0.82	1.9E+03	1.00	0.81	2.0E+03	-1.16
	53	1.01	0.84	1.8E+03	1.00	0.83	1.9E+03	-1.16
	54	1.02	0.84	1.8E+03	1.00	0.82	1.9E+03	-1.15
	55	1.02	0.85	1.9E+03	1.00	0.82	2.0E+03	-1.19
	56	1.03	0.84	1.9E+03	1.01	0.82	2.0E+03	-1.17
	57	1.02	0.84	1.9E+03	1.01	0.82	2.0E+03	-1.16
	58	1.02	0.84	1.8E+03	1.01	0.83	1.9E+03	-1.16
	59	1.02	0.85	1.9E+03	1.01	0.82	2.0E+03	-1.10
	60	1.02	0.85	1.8E+03	1.01	0.83	1.9E+03	-1.13
	61	1.02	0.85	1.8E+03	1.01	0.83	1.9E+03	-1.12
	62	1.02	0.85	1.9E+03	1.01	0.83	2.0E+03	-1.13
	63	1.01	0.84	1.9E+03	1.00	0.82	2.0E+03	-1.12
	64	1.02	0.84	1.8E+03	1.01	0.82	1.9E+03	-1.11
	65	1.01	0.85	1.9E+03	1.00	0.83	2.0E+03	-1.07
	66	1.02	0.84	1.9E+03	1.01	0.83	2.0E+03	-1.09
	67	1.01	0.85	1.9E+03	1.00	0.83	2.0E+03	-1.09
	68	1.03	0.85	1.9E+03	1.02	0.83	2.0E+03	-1.13
	69	1.02	0.85	1.9E+03	1.00	0.82	2.0E+03	-1.11
	70	1.02	0.85	1.9E+03	1.01	0.82	2.0E+03	-1.12
	71	1.03	0.85	1.8E+03	1.01	0.82	1.9E+03	-1.16
	72	1.02	0.84	1.9E+03	1.01	0.82	1.9E+03	-1.15
	73	1.01	0.85	1.9E+03	1.00	0.83	2.0E+03	-1.14
	74	1.00	0.84	1.9E+03	0.99	0.82	2.0E+03	-1.16
	75	1.01	0.84	1.8E+03	1.00	0.83	1.9E+03	-1.10
	76	1.02	0.84	1.9E+03	1.00	0.83	2.0E+03	-1.08
	77	1.02	0.84	1.8E+03	1.01	0.83	1.9E+03	-1.06

AEC-Q200 Summary of Test Results

	Murata P/N: GCJ21BR71H105KA01
Manufacturing Location: Philippine Manufacturing Co. of Murata	Lot No: A,B,C
Date before test: 2025/3/13	Date after test: 2025/5/11

#7 - Humidity Bias

Test conditions : 1000hr , 85deg C / 85% RH , 1WV

No. of samples:	77	Initial readings			Final readings			
No. of lots:	3	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Change in capacitance %
Spec limits	lower	0.90		5.0E+02			5.0E+01	-12.50
	upper	1.10	5.00			5.00		12.50
Measurement Statistics	mean	1.017	0.892	1.9E+03	1.002	1.269	2.6E+03	-1.460
	maximum	1.05	0.92	2.0E+03	1.03	1.33	2.8E+03	-1.18
	minimum	1.00	0.88	1.8E+03	0.99	1.17	2.4E+03	-1.77
	standard deviation	0.0075	0.0073	3.5E+01	0.0070	0.0291	7.0E+01	0.1582

Test Data

Lot No	Sample	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Change in capacitance %
A	1	1.03	0.90	1.9E+03	1.01	1.30	2.7E+03	-1.75
	2	1.04	0.89	1.9E+03	1.02	1.32	2.6E+03	-1.64
	3	1.02	0.90	1.9E+03	1.01	1.31	2.7E+03	-1.66
	4	1.02	0.89	1.9E+03	1.00	1.31	2.7E+03	-1.47
	5	1.01	0.89	1.9E+03	1.00	1.31	2.7E+03	-1.58
	6	1.02	0.89	1.9E+03	1.01	1.30	2.7E+03	-1.66
	7	1.02	0.89	1.9E+03	1.01	1.31	2.7E+03	-1.57
	8	1.02	0.89	1.9E+03	1.00	1.30	2.7E+03	-1.57
	9	1.02	0.89	1.9E+03	1.00	1.30	2.5E+03	-1.57
	10	1.00	0.88	2.0E+03	0.99	1.30	2.8E+03	-1.60
	11	1.02	0.89	1.9E+03	1.00	1.31	2.7E+03	-1.57
	12	1.02	0.89	1.9E+03	1.00	1.30	2.7E+03	-1.67
	13	1.03	0.89	1.9E+03	1.01	1.31	2.7E+03	-1.66
	14	1.01	0.89	1.9E+03	0.99	1.31	2.7E+03	-1.68
	15	1.02	0.89	1.9E+03	1.00	1.31	2.7E+03	-1.67
	16	1.02	0.88	1.9E+03	1.00	1.30	2.7E+03	-1.67
	17	1.01	0.89	1.9E+03	1.00	1.30	2.7E+03	-1.68
	18	1.02	0.89	1.9E+03	1.00	1.31	2.7E+03	-1.67
	19	1.02	0.89	1.9E+03	1.00	1.31	2.7E+03	-1.67
	20	1.02	0.89	1.9E+03	1.00	1.30	2.7E+03	-1.67
	21	1.02	0.89	1.9E+03	1.00	1.30	2.7E+03	-1.67
	22	1.02	0.89	1.9E+03	1.00	1.30	2.7E+03	-1.57
	23	1.02	0.89	1.9E+03	1.01	1.30	2.7E+03	-1.56
	24	1.01	0.89	2.0E+03	1.00	1.30	2.7E+03	-1.49
	25	1.01	0.89	2.0E+03	0.99	1.29	2.8E+03	-1.59
	26	1.02	0.89	1.9E+03	1.00	1.30	2.7E+03	-1.67
	27	1.01	0.89	2.0E+03	0.99	1.30	2.7E+03	-1.49
	28	1.02	0.88	1.9E+03	1.01	1.29	2.6E+03	-1.47
	29	1.02	0.89	1.9E+03	1.00	1.30	2.7E+03	-1.57
	30	1.02	0.89	1.9E+03	1.00	1.29	2.6E+03	-1.57
	31	1.02	0.88	1.9E+03	1.00	1.29	2.7E+03	-1.67
	32	1.02	0.89	1.9E+03	1.00	1.29	2.7E+03	-1.57
	33	1.02	0.88	1.9E+03	1.01	1.29	2.7E+03	-1.57
	34	1.04	0.90	1.9E+03	1.02	1.31	2.6E+03	-1.64
	35	1.02	0.89	1.9E+03	1.00	1.31	2.7E+03	-1.67
	36	1.03	0.90	1.9E+03	1.01	1.31	2.7E+03	-1.66
	37	1.02	0.89	2.0E+03	1.00	1.30	2.8E+03	-1.77
	38	1.02	0.88	1.9E+03	1.01	1.30	2.7E+03	-1.66
	39	1.02	0.89	1.9E+03	1.00	1.31	2.7E+03	-1.67
	40	1.03	0.88	1.9E+03	1.01	1.30	2.7E+03	-1.65
	41	1.02	0.89	1.9E+03	1.01	1.30	2.7E+03	-1.57
	42	1.02	0.89	1.9E+03	1.00	1.30	2.7E+03	-1.67
	43	1.01	0.89	1.9E+03	1.00	1.30	2.7E+03	-1.68
	44	1.02	0.89	1.9E+03	1.00	1.30	2.7E+03	-1.58
	45	1.02	0.89	1.9E+03	1.00	1.29	2.7E+03	-1.67
	46	1.02	0.89	1.9E+03	1.00	1.29	2.7E+03	-1.77
	47	1.02	0.89	1.9E+03	1.01	1.30	2.7E+03	-1.66
	48	1.05	0.90	1.9E+03	1.03	1.31	2.6E+03	-1.72
	49	1.02	0.90	2.0E+03	1.00	1.30	2.7E+03	-1.67
	50	1.01	0.89	1.9E+03	0.99	1.30	2.7E+03	-1.59
	51	1.01	0.89	1.9E+03	1.00	1.30	2.7E+03	-1.68
	52	1.02	0.90	1.9E+03	1.00	1.31	2.7E+03	-1.67
	53	1.01	0.89	1.9E+03	1.00	1.30	2.7E+03	-1.68
	54	1.02	0.89	1.9E+03	1.01	1.31	2.7E+03	-1.76
	55	1.03	0.89	1.9E+03	1.01	1.31	2.7E+03	-1.75
	56	1.03	0.88	1.9E+03	1.01	1.30	2.7E+03	-1.66
	57	1.01	0.88	2.0E+03	0.99	1.30	2.7E+03	-1.59
	58	1.02	0.89	1.9E+03	1.00	1.29	2.7E+03	-1.67
	59	1.02	0.88	1.9E+03	1.01	1.29	2.7E+03	-1.76
	60	1.02	0.89	1.9E+03	1.00	1.30	2.7E+03	-1.57
	61	1.02	0.88	1.9E+03	1.00	1.29	2.7E+03	-1.57
	62	1.01	0.89	1.9E+03	1.00	1.30	2.7E+03	-1.58
	63	1.02	0.89	1.9E+03	1.00	1.30	2.7E+03	-1.48
	64	1.02	0.89	1.9E+03	1.00	1.30	2.7E+03	-1.58
	65	1.02	0.89	1.9E+03	1.00	1.29	2.7E+03	-1.67
	66	1.02	0.89	2.0E+03	1.00	1.30	2.7E+03	-1.57
	67	1.02	0.89	1.9E+03	1.00	1.29	2.7E+03	-1.57
	68	1.00	0.89	1.9E+03	0.99	1.29	2.7E+03	-1.60
	69	1.02	0.89	1.9E+03	1.00	1.30	2.7E+03	-1.67
	70	1.01	0.89	1.9E+03	1.00	1.30	2.7E+03	-1.68
	71	1.03	0.90	1.9E+03	1.02	1.30	2.6E+03	-1.65
	72	1.04	0.91	1.9E+03	1.02	1.32	2.7E+03	-1.73
	73	1.02	0.89	1.9E+03	1.00	1.31	2.7E+03	-1.67
	74	1.02	0.89	1.9E+03	1.00	1.31	2.7E+03	-1.77
	75	1.02	0.89	1.9E+03	1.00	1.30	2.7E+03	-1.67
	76	1.02	0.89	1.9E+03	1.01	1.31	2.6E+03	-1.66
	77	1.01	0.89	1.9E+03	0.99	1.31	2.7E+03	-1.69

AEC-Q200 Summary of Test Results

	Murata P/N: GCJ21BR71H105KA01
Manufacturing Location: Philippine Manufacturing Co. of Murata	Lot No: A,B,C
Date before test: 2025/3/13	Date after test: 2025/5/11

#7 - Humidity Bias

Test conditions : 1000hr , 85deg C / 85% RH , 1WV

	1	1.01	0.90	1.9E+03	1.00	1.31	2.6E+03	-1.48
	2	1.01	0.89	1.9E+03	1.00	1.29	2.6E+03	-1.39
	3	1.01	0.88	1.9E+03	1.00	1.28	2.6E+03	-1.29
	4	1.01	0.89	1.9E+03	1.00	1.33	2.6E+03	-1.38
	5	1.02	0.89	1.9E+03	1.00	1.28	2.6E+03	-1.28
	6	1.01	0.88	1.9E+03	1.00	1.28	2.6E+03	-1.29
	7	1.01	0.88	1.9E+03	0.99	1.27	2.7E+03	-1.29
	8	1.03	0.89	1.8E+03	1.02	1.27	2.5E+03	-1.26
	9	1.02	0.89	1.9E+03	1.01	1.26	2.6E+03	-1.27
	10	1.00	0.88	1.9E+03	0.99	1.26	2.6E+03	-1.20
	11	1.02	0.89	1.8E+03	1.01	1.26	2.5E+03	-1.27
	12	1.01	0.88	1.8E+03	1.00	1.25	2.5E+03	-1.29
	13	1.02	0.89	1.9E+03	1.00	1.25	2.6E+03	-1.28
	14	1.01	0.89	1.9E+03	0.99	1.25	2.6E+03	-1.19
	15	1.02	0.89	1.8E+03	1.00	1.25	2.5E+03	-1.28
	16	1.01	0.89	1.9E+03	1.00	1.26	2.6E+03	-1.28
	17	1.02	0.89	1.9E+03	1.00	1.25	2.6E+03	-1.28
	18	1.01	0.89	1.9E+03	1.00	1.26	2.6E+03	-1.39
	19	1.00	0.88	1.9E+03	0.99	1.30	2.7E+03	-1.40
	20	1.02	0.89	1.9E+03	1.01	1.30	2.6E+03	-1.27
	21	1.01	0.88	1.9E+03	0.99	1.27	2.7E+03	-1.39
	22	1.02	0.89	1.9E+03	1.00	1.29	2.6E+03	-1.38
	23	1.02	0.89	1.9E+03	1.01	1.27	2.6E+03	-1.28
	24	1.00	0.88	1.9E+03	0.99	1.27	2.6E+03	-1.30
	25	1.01	0.89	1.9E+03	1.00	1.29	2.6E+03	-1.28
	26	1.01	0.88	1.9E+03	1.00	1.26	2.6E+03	-1.28
	27	1.02	0.88	1.9E+03	1.00	1.26	2.6E+03	-1.28
	28	1.01	0.88	1.9E+03	0.99	1.26	2.6E+03	-1.19
	29	1.02	0.89	1.9E+03	1.00	1.26	2.6E+03	-1.28
	30	1.03	0.89	1.8E+03	1.01	1.25	2.5E+03	-1.27
	31	1.02	0.88	1.8E+03	1.00	1.24	2.5E+03	-1.28
	32	1.01	0.89	1.9E+03	1.00	1.25	2.6E+03	-1.28
	33	1.02	0.88	1.9E+03	1.01	1.25	2.5E+03	-1.18
	34	1.02	0.89	1.8E+03	1.00	1.25	2.5E+03	-1.28
	35	1.02	0.89	1.8E+03	1.00	1.26	2.5E+03	-1.28
	36	1.01	0.88	1.8E+03	1.00	1.25	2.5E+03	-1.38
	37	1.02	0.89	1.9E+03	1.00	1.28	2.6E+03	-1.38
	38	1.01	0.89	1.9E+03	1.00	1.26	2.6E+03	-1.28
B	39	1.01	0.89	1.9E+03	1.00	1.29	2.6E+03	-1.28
	40	1.02	0.89	1.9E+03	1.00	1.25	2.6E+03	-1.38
	41	1.02	0.89	1.9E+03	1.00	1.25	2.6E+03	-1.38
	42	1.00	0.89	1.9E+03	0.99	1.25	2.6E+03	-1.20
	43	1.01	0.88	1.9E+03	1.00	1.24	2.5E+03	-1.28
	44	1.00	0.88	1.9E+03	0.99	1.23	2.6E+03	-1.30
	45	1.02	0.89	1.9E+03	1.00	1.23	2.5E+03	-1.38
	46	1.00	0.89	1.9E+03	0.99	1.23	2.6E+03	-1.30
	47	1.02	0.89	1.8E+03	1.01	1.24	2.4E+03	-1.27
	48	1.02	0.89	1.9E+03	1.01	1.23	2.5E+03	-1.37
	49	1.02	0.89	1.9E+03	1.00	1.23	2.5E+03	-1.28
	50	1.01	0.88	1.8E+03	1.00	1.22	2.5E+03	-1.19
	51	1.02	0.89	1.8E+03	1.01	1.24	2.5E+03	-1.28
	52	1.02	0.89	1.9E+03	1.01	1.23	2.5E+03	-1.27
	53	1.01	0.89	1.9E+03	1.00	1.24	2.5E+03	-1.28
	54	1.00	0.89	1.9E+03	0.99	1.24	2.6E+03	-1.20
	55	1.02	0.89	1.9E+03	1.00	1.26	2.6E+03	-1.38
	56	1.01	0.89	1.9E+03	0.99	1.26	2.6E+03	-1.39
	57	1.01	0.89	1.9E+03	1.00	1.25	2.6E+03	-1.28
	58	1.03	0.89	1.8E+03	1.01	1.26	2.5E+03	-1.27
	59	1.02	0.90	1.9E+03	1.01	1.26	2.6E+03	-1.28
	60	1.02	0.89	1.9E+03	1.01	1.24	2.6E+03	-1.37
	61	1.02	0.89	1.8E+03	1.01	1.24	2.5E+03	-1.27
	62	1.01	0.89	1.9E+03	1.00	1.24	2.6E+03	-1.28
	63	1.02	0.89	1.9E+03	1.01	1.24	2.6E+03	-1.28
	64	1.02	0.89	1.9E+03	1.00	1.23	2.6E+03	-1.28
	65	1.03	0.90	1.8E+03	1.01	1.24	2.5E+03	-1.27
	66	1.01	0.89	1.9E+03	1.00	1.23	2.5E+03	-1.18
	67	1.02	0.89	1.8E+03	1.01	1.24	2.5E+03	-1.28
	68	1.01	0.89	1.9E+03	1.00	1.24	2.5E+03	-1.29
	69	1.01	0.89	1.9E+03	1.00	1.24	2.5E+03	-1.29
	70	1.01	0.89	1.8E+03	1.00	1.24	2.6E+03	-1.28
	71	1.01	0.89	1.9E+03	1.00	1.25	2.6E+03	-1.19
	72	1.02	0.89	1.8E+03	1.01	1.25	2.5E+03	-1.27
	73	1.02	0.88	1.8E+03	1.00	1.26	2.5E+03	-1.38
	74	1.01	0.88	1.8E+03	1.00	1.27	2.5E+03	-1.29
	75	1.01	0.89	1.8E+03	0.99	1.28	2.5E+03	-1.29
	76	1.02	0.89	1.8E+03	1.01	1.26	2.5E+03	-1.28
	77	1.02	0.89	1.8E+03	1.00	1.26	2.5E+03	-1.28

AEC-Q200 Summary of Test Results

	Murata P/N: GCJ21BR71H105KA01
Manufacturing Location: Philippine Manufacturing Co. of Murata	Lot No: A,B,C
Date before test: 2025/3/13	Date after test: 2025/5/11

#7 - Humidity Bias

Test conditions : 1000hr , 85deg C / 85% RH , 1WV

	1	1.02	0.92	1.9E+03	1.00	1.29	2.7E+03	-1.67
	2	1.03	0.90	1.9E+03	1.01	1.28	2.6E+03	-1.56
	3	1.02	0.90	1.9E+03	1.00	1.29	2.6E+03	-1.47
	4	1.03	0.90	1.9E+03	1.01	1.27	2.6E+03	-1.46
	5	1.03	0.91	1.9E+03	1.01	1.28	2.7E+03	-1.46
	6	1.02	0.90	1.9E+03	1.00	1.26	2.6E+03	-1.47
	7	1.02	0.90	1.9E+03	1.01	1.26	2.6E+03	-1.46
	8	1.02	0.90	1.9E+03	1.01	1.25	2.6E+03	-1.47
	9	1.02	0.90	1.9E+03	1.00	1.25	2.6E+03	-1.38
	10	1.02	0.89	1.9E+03	1.01	1.24	2.6E+03	-1.37
	11	1.03	0.90	1.9E+03	1.02	1.25	2.6E+03	-1.46
	12	1.01	0.90	1.9E+03	1.00	1.25	2.6E+03	-1.39
	13	1.03	0.90	1.9E+03	1.01	1.25	2.6E+03	-1.36
	14	1.03	0.91	1.9E+03	1.01	1.25	2.7E+03	-1.46
	15	1.01	0.90	1.9E+03	1.00	1.25	2.6E+03	-1.48
	16	1.01	0.89	1.9E+03	0.99	1.24	2.6E+03	-1.39
	17	1.03	0.90	1.8E+03	1.01	1.24	2.6E+03	-1.46
	18	1.02	0.90	1.9E+03	1.00	1.25	2.7E+03	-1.57
	19	1.02	0.90	1.9E+03	1.00	1.30	2.7E+03	-1.57
	20	1.01	0.89	1.9E+03	1.00	1.28	2.7E+03	-1.58
	21	1.03	0.89	1.9E+03	1.01	1.27	2.6E+03	-1.46
	22	1.01	0.89	1.9E+03	0.99	1.26	2.7E+03	-1.49
	23	1.02	0.89	1.9E+03	1.00	1.26	2.6E+03	-1.38
	24	1.02	0.90	1.9E+03	1.01	1.26	2.6E+03	-1.47
	25	1.02	0.89	1.9E+03	1.01	1.26	2.6E+03	-1.37
	26	1.03	0.90	1.9E+03	1.02	1.26	2.7E+03	-1.55
	27	1.01	0.89	1.9E+03	0.99	1.33	2.7E+03	-1.49
	28	1.03	0.89	1.9E+03	1.01	1.24	2.6E+03	-1.56
	29	1.02	0.90	1.9E+03	1.01	1.25	2.6E+03	-1.47
	30	1.02	0.89	1.9E+03	1.01	1.24	2.6E+03	-1.47
	31	1.03	0.90	1.9E+03	1.01	1.25	2.6E+03	-1.46
	32	1.02	0.90	1.9E+03	1.01	1.24	2.6E+03	-1.47
	33	1.02	0.90	1.8E+03	1.01	1.24	2.6E+03	-1.47
	34	1.02	0.90	1.9E+03	1.01	1.24	2.6E+03	-1.47
	35	1.00	0.89	1.9E+03	0.99	1.24	2.7E+03	-1.39
	36	1.02	0.90	1.9E+03	1.00	1.26	2.7E+03	-1.48
	37	1.03	0.90	1.9E+03	1.01	1.29	2.6E+03	-1.56
	38	1.03	0.91	1.9E+03	1.01	1.25	2.6E+03	-1.46
C	39	1.01	0.90	1.9E+03	1.00	1.26	2.6E+03	-1.38
	40	1.03	0.90	1.9E+03	1.01	1.24	2.6E+03	-1.46
	41	1.02	0.90	1.9E+03	1.01	1.24	2.6E+03	-1.37
	42	1.02	0.90	1.9E+03	1.01	1.24	2.6E+03	-1.47
	43	1.01	0.90	1.9E+03	0.99	1.27	2.6E+03	-1.39
	44	1.02	0.90	1.9E+03	1.01	1.24	2.6E+03	-1.37
	45	1.02	0.90	1.9E+03	1.00	1.24	2.6E+03	-1.47
	46	1.01	0.90	1.9E+03	1.00	1.24	2.6E+03	-1.29
	47	1.02	0.90	1.9E+03	1.01	1.23	2.5E+03	-1.37
	48	1.02	0.90	1.9E+03	1.01	1.23	2.6E+03	-1.47
	49	1.02	0.91	1.9E+03	1.00	1.17	2.6E+03	-1.76
	50	1.02	0.90	1.9E+03	1.01	1.26	2.6E+03	-1.37
	51	1.01	0.90	1.9E+03	1.00	1.23	2.6E+03	-1.58
	52	1.02	0.90	1.9E+03	1.00	1.23	2.6E+03	-1.57
	53	1.03	0.90	1.9E+03	1.01	1.22	2.6E+03	-1.56
	54	1.01	0.90	1.9E+03	1.00	1.20	2.6E+03	-1.58
	55	1.03	0.92	1.9E+03	1.01	1.26	2.7E+03	-1.56
	56	1.01	0.90	1.9E+03	1.00	1.25	2.6E+03	-1.48
	57	1.01	0.89	1.9E+03	0.99	1.24	2.6E+03	-1.49
	58	1.01	0.90	1.9E+03	0.99	1.25	2.7E+03	-1.39
	59	1.03	0.90	1.8E+03	1.02	1.25	2.5E+03	-1.45
	60	1.01	0.90	1.9E+03	1.00	1.24	2.7E+03	-1.38
	61	1.02	0.90	1.9E+03	1.01	1.23	2.6E+03	-1.37
	62	1.02	0.90	1.9E+03	1.00	1.23	2.6E+03	-1.38
	63	1.02	0.90	1.9E+03	1.01	1.23	2.6E+03	-1.37
	64	1.00	0.89	1.9E+03	0.99	1.22	2.7E+03	-1.29
	65	1.02	0.90	1.9E+03	1.01	1.24	2.6E+03	-1.37
	66	1.02	0.90	1.9E+03	1.00	1.24	2.6E+03	-1.48
	67	1.01	0.90	1.9E+03	1.00	1.24	2.6E+03	-1.28
	68	1.03	0.90	1.9E+03	1.01	1.23	2.6E+03	-1.36
	69	1.02	0.90	1.9E+03	1.01	1.24	2.6E+03	-1.37
	70	1.03	0.90	1.8E+03	1.02	1.24	2.5E+03	-1.45
	71	1.01	0.90	1.9E+03	1.00	1.25	2.6E+03	-1.38
	72	1.02	0.90	1.9E+03	1.00	1.26	2.6E+03	-1.47
	73	1.03	0.89	1.9E+03	1.01	1.25	2.6E+03	-1.46
	74	1.01	0.89	1.9E+03	1.00	1.26	2.6E+03	-1.38
	75	1.01	0.89	1.9E+03	1.00	1.25	2.6E+03	-1.38
	76	1.03	0.90	1.9E+03	1.01	1.25	2.6E+03	-1.36
	77	1.02	0.90	1.9E+03	1.00	1.25	2.6E+03	-1.28

AEC-Q200 Summary of Test Results

	Murata P/N: GCJ21BR71H105KA01
Manufacturing Location: Philippine Manufacturing Co. of Murata	Lot No: A,B,C
Date before test: 2025/3/19	Date after test: 2025/5/18

#7 - Humidity Bias

Test conditions : 1000hr , 85deg C / 85% RH , 1.3V

No. of samples:	77	Initial readings			Final readings			
No. of lots:	3	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Change in capacitance %
Spec limits	lower	0.90		5.0E+02			5.0E+01	-12.50
	upper	1.10	5.00			5.00		12.50
Measurement Statistics	mean	1.017	0.894	2.0E+03	1.008	0.930	2.0E+03	-0.874
	maximum	1.04	0.92	2.1E+03	1.03	0.95	2.1E+03	-0.78
	minimum	1.00	0.88	1.9E+03	0.99	0.53	1.9E+03	-1.00
	standard deviation	0.0071	0.0054	2.6E+01	0.0071	0.0274	3.2E+01	0.0509

Test Data

Lot No	Sample	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Change in capacitance %
A	1	1.01	0.90	2.0E+03	1.00	0.92	2.0E+03	-0.99
	2	1.02	0.90	2.0E+03	1.01	0.94	2.0E+03	-0.98
	3	1.02	0.89	2.0E+03	1.01	0.94	2.0E+03	-0.88
	4	1.02	0.90	1.9E+03	1.02	0.94	2.0E+03	-0.88
	5	1.02	0.89	2.0E+03	1.01	0.94	2.0E+03	-0.89
	6	1.02	0.89	2.0E+03	1.01	0.93	2.0E+03	-0.88
	7	1.02	0.89	2.0E+03	1.02	0.93	2.0E+03	-0.88
	8	1.01	0.89	2.0E+03	1.00	0.93	2.1E+03	-0.89
	9	1.02	0.89	1.9E+03	1.01	0.93	2.0E+03	-0.88
	10	1.02	0.89	2.0E+03	1.01	0.94	2.0E+03	-0.89
	11	1.01	0.89	2.0E+03	1.01	0.93	2.0E+03	-0.89
	12	1.01	0.89	2.0E+03	1.00	0.93	2.0E+03	-0.80
	13	1.02	0.90	2.0E+03	1.01	0.94	2.0E+03	-0.79
	14	1.00	0.89	2.0E+03	1.00	0.93	2.0E+03	-0.80
	15	1.02	0.89	2.0E+03	1.01	0.93	2.0E+03	-0.88
	16	1.01	0.89	1.9E+03	1.00	0.93	2.0E+03	-0.79
	17	1.02	0.89	1.9E+03	1.01	0.93	2.0E+03	-0.88
	18	1.02	0.89	1.9E+03	1.01	0.94	2.0E+03	-0.78
	19	1.01	0.90	2.0E+03	1.00	0.95	2.0E+03	-0.89
	20	1.02	0.89	2.0E+03	1.01	0.94	2.0E+03	-0.99
	21	1.00	0.89	2.0E+03	0.99	0.94	2.0E+03	-0.90
	22	1.01	0.89	2.0E+03	1.00	0.94	2.1E+03	-0.89
	23	1.02	0.90	2.0E+03	1.01	0.95	2.0E+03	-0.88
	24	1.01	0.89	2.0E+03	1.00	0.94	2.1E+03	-0.89
	25	1.01	0.89	2.0E+03	1.00	0.93	2.0E+03	-0.89
	26	1.01	0.90	2.0E+03	1.01	0.94	2.0E+03	-0.89
	27	1.02	0.89	2.0E+03	1.01	0.93	2.0E+03	-0.88
	28	1.01	0.90	2.0E+03	1.00	0.93	2.0E+03	-0.89
	29	1.03	0.90	1.9E+03	1.02	0.94	2.0E+03	-0.88
	30	1.02	0.89	2.0E+03	1.01	0.93	2.0E+03	-0.88
	31	1.02	0.89	2.0E+03	1.01	0.94	2.0E+03	-0.79
	32	1.01	0.90	2.0E+03	1.00	0.94	2.0E+03	-0.89
	33	1.01	0.90	2.0E+03	1.01	0.94	2.0E+03	-0.89
	34	1.02	0.90	2.0E+03	1.01	0.94	2.0E+03	-0.78
	35	1.01	0.90	2.0E+03	1.00	0.95	2.0E+03	-0.89
	36	1.00	0.89	2.0E+03	0.99	0.94	2.0E+03	-0.90
	37	1.02	0.89	2.0E+03	1.01	0.93	2.0E+03	-0.88
	38	1.02	0.90	2.0E+03	1.01	0.94	2.0E+03	-0.88
	39	1.02	0.90	2.0E+03	1.01	0.93	2.0E+03	-0.79
	40	1.02	0.90	2.0E+03	1.01	0.93	2.0E+03	-0.88
	41	1.02	0.89	1.9E+03	1.01	0.93	2.0E+03	-0.89
	42	1.02	0.90	2.0E+03	1.01	0.94	2.0E+03	-0.88
	43	1.02	0.89	2.0E+03	1.01	0.93	2.0E+03	-0.88
	44	1.02	0.90	2.0E+03	1.01	0.94	2.0E+03	-0.88
	45	1.02	0.89	2.0E+03	1.01	0.93	2.0E+03	-0.79
	46	1.02	0.89	2.0E+03	1.01	0.93	2.0E+03	-0.88
	47	1.01	0.89	2.0E+03	1.00	0.92	2.0E+03	-0.80
	48	1.02	0.90	2.0E+03	1.01	0.94	2.0E+03	-0.88
	49	1.02	0.89	1.9E+03	1.01	0.93	2.0E+03	-0.88
	50	1.02	0.89	2.0E+03	1.01	0.93	2.0E+03	-0.88
	51	1.01	0.89	2.0E+03	1.00	0.93	2.0E+03	-0.89
	52	1.00	0.89	2.0E+03	0.99	0.93	2.0E+03	-0.80
	53	1.02	0.90	1.9E+03	1.01	0.94	2.0E+03	-0.78
	54	1.03	0.89	1.9E+03	1.02	0.93	2.0E+03	-0.88
	55	1.02	0.90	2.0E+03	1.01	0.94	2.0E+03	-0.88
	56	1.02	0.89	2.0E+03	1.01	0.93	2.0E+03	-0.88
	57	1.02	0.89	1.9E+03	1.01	0.93	2.0E+03	-0.79
	58	1.02	0.90	2.0E+03	1.01	0.93	2.0E+03	-0.89
	59	1.03	0.90	2.0E+03	1.02	0.94	2.0E+03	-0.88
	60	1.04	0.90	1.9E+03	1.03	0.93	2.0E+03	-0.87
	61	1.02	0.89	2.0E+03	1.01	0.92	2.0E+03	-0.78
	62	1.01	0.89	2.0E+03	1.00	0.93	2.0E+03	-0.89
	63	1.02	0.89	2.0E+03	1.01	0.93	2.0E+03	-0.79
	64	1.02	0.90	2.0E+03	1.01	0.94	2.0E+03	-0.88
	65	1.02	0.89	2.0E+03	1.01	0.93	2.0E+03	-0.89
	66	1.02	0.89	2.0E+03	1.01	0.93	2.0E+03	-0.88
	67	1.01	0.89	2.0E+03	1.00	0.93	2.0E+03	-0.79
	68	1.02	0.89	2.0E+03	1.01	0.93	2.0E+03	-0.89
	69	1.01	0.89	2.0E+03	1.00	0.93	2.0E+03	-0.79
	70	1.02	0.90	1.9E+03	1.01	0.93	2.0E+03	-0.79
	71	1.02	0.89	1.9E+03	1.01	0.93	2.0E+03	-0.79
	72	1.01	0.89	1.9E+03	1.00	0.94	2.0E+03	-0.89
	73	1.03	0.89	1.9E+03	1.02	0.53	2.0E+03	-0.87
	74	1.02	0.89	1.9E+03	1.01	0.92	2.0E+03	-0.98
	75	1.02	0.89	1.9E+03	1.01	0.92	2.0E+03	-0.98
	76	1.02	0.89	2.0E+03	1.01	0.92	2.0E+03	-0.89
	77	1.02	0.89	1.9E+03	1.01	0.92	2.0E+03	-0.88

AEC-Q200 Summary of Test Results

	Murata P/N: GCJ21BR71H105KA01
Manufacturing Location: Philippine Manufacturing Co. of Murata	Lot No: A,B,C
Date before test: 2025/3/19	Date after test: 2025/5/18

#7 - Humidity Bias

Test conditions : 1000hr , 85deg C / 85% RH , 1.3V

	1	1.02	0.89	2.0E+03	1.01	0.94	2.0E+03	-0.99
	2	1.01	0.89	2.0E+03	1.00	0.93	2.0E+03	-0.90
	3	1.03	0.89	1.9E+03	1.02	0.92	2.0E+03	-0.97
	4	1.01	0.89	1.9E+03	1.01	0.93	2.0E+03	-0.89
	5	1.02	0.89	2.0E+03	1.01	0.93	2.0E+03	-0.89
	6	1.01	0.89	2.0E+03	1.00	0.93	2.0E+03	-0.89
	7	1.01	0.89	2.0E+03	1.00	0.93	2.0E+03	-0.89
	8	1.00	0.89	2.0E+03	0.99	0.93	2.0E+03	-0.90
	9	1.01	0.89	2.0E+03	1.00	0.93	2.0E+03	-0.79
	10	1.01	0.89	1.9E+03	1.00	0.94	2.0E+03	-0.89
	11	1.01	0.88	1.9E+03	1.00	0.92	2.0E+03	-0.89
	12	1.01	0.89	2.0E+03	1.00	0.93	2.0E+03	-0.79
	13	1.02	0.89	1.9E+03	1.01	0.92	2.0E+03	-0.89
	14	1.01	0.89	2.0E+03	1.00	0.92	2.0E+03	-0.89
	15	1.02	0.89	1.9E+03	1.01	0.92	2.0E+03	-0.88
	16	1.01	0.89	1.9E+03	1.01	0.93	2.0E+03	-0.89
	17	1.01	0.89	2.0E+03	1.00	0.92	2.0E+03	-0.89
	18	1.02	0.89	1.9E+03	1.01	0.93	1.9E+03	-0.88
	19	1.01	0.89	2.0E+03	1.00	0.93	2.0E+03	-0.90
	20	1.02	0.90	2.0E+03	1.01	0.94	1.9E+03	-0.88
	21	1.02	0.89	1.9E+03	1.01	0.94	2.0E+03	-0.88
	22	1.02	0.89	1.9E+03	1.01	0.93	2.0E+03	-0.88
	23	1.02	0.89	1.9E+03	1.01	0.93	2.0E+03	-0.88
	24	1.01	0.89	2.0E+03	1.00	0.93	2.0E+03	-0.80
	25	1.01	0.89	2.0E+03	1.00	0.93	2.0E+03	-0.89
	26	1.01	0.89	2.0E+03	1.00	0.93	2.0E+03	-0.89
	27	1.02	0.90	1.9E+03	1.01	0.94	2.0E+03	-0.78
	28	1.01	0.89	1.9E+03	1.00	0.93	2.0E+03	-0.89
	29	1.01	0.89	1.9E+03	1.00	0.93	1.9E+03	-0.89
	30	1.02	0.92	1.9E+03	1.02	0.94	2.0E+03	-0.78
	31	1.02	0.90	2.0E+03	1.01	0.94	2.0E+03	-0.79
	32	1.00	0.89	2.0E+03	0.99	0.93	2.0E+03	-0.90
	33	1.01	0.90	1.9E+03	1.00	0.93	2.0E+03	-0.89
	34	1.02	0.90	2.0E+03	1.01	0.93	2.0E+03	-0.78
	35	1.01	0.89	2.0E+03	1.00	0.93	2.0E+03	-0.89
	36	1.02	0.89	1.9E+03	1.01	0.92	1.9E+03	-0.88
	37	1.02	0.90	1.9E+03	1.01	0.94	2.0E+03	-0.88
	38	1.02	0.89	2.0E+03	1.01	0.93	2.0E+03	-0.89
B	39	1.02	0.89	2.0E+03	1.01	0.93	2.0E+03	-0.88
	40	1.01	0.89	2.0E+03	1.00	0.93	2.0E+03	-0.89
	41	1.02	0.89	1.9E+03	1.01	0.92	2.0E+03	-0.88
	42	1.02	0.89	1.9E+03	1.01	0.93	1.9E+03	-0.79
	43	1.01	0.89	1.9E+03	1.00	0.93	2.0E+03	-0.89
	44	1.02	0.89	2.0E+03	1.01	0.93	2.0E+03	-0.88
	45	1.02	0.89	1.9E+03	1.01	0.93	2.0E+03	-0.88
	46	1.01	0.89	1.9E+03	1.01	0.92	2.0E+03	-0.89
	47	1.02	0.89	1.9E+03	1.01	0.93	2.0E+03	-0.88
	48	1.02	0.89	2.0E+03	1.01	0.93	2.0E+03	-0.88
	49	1.02	0.90	2.0E+03	1.01	0.94	2.0E+03	-0.89
	50	1.01	0.90	2.0E+03	1.00	0.93	2.0E+03	-0.79
	51	1.00	0.89	2.0E+03	0.99	0.93	2.1E+03	-0.90
	52	1.02	0.90	1.9E+03	1.01	0.93	2.0E+03	-0.88
	53	1.02	0.89	1.9E+03	1.01	0.93	2.0E+03	-0.88
	54	1.02	0.90	1.9E+03	1.01	0.93	2.0E+03	-0.88
	55	1.01	0.89	2.0E+03	1.00	0.94	2.0E+03	-0.79
	56	1.01	0.89	2.0E+03	1.01	0.93	2.0E+03	-0.89
	57	1.02	0.89	2.0E+03	1.01	0.93	2.0E+03	-0.78
	58	1.01	0.90	2.0E+03	1.00	0.94	2.0E+03	-0.79
	59	1.01	0.90	2.0E+03	1.00	0.93	2.0E+03	-0.79
	60	1.01	0.89	2.0E+03	1.00	0.93	2.0E+03	-0.89
	61	1.01	0.90	2.0E+03	1.00	0.93	2.0E+03	-0.79
	62	1.01	0.89	2.0E+03	1.00	0.93	2.0E+03	-0.79
	63	1.01	0.89	2.0E+03	1.00	0.93	2.0E+03	-0.89
	64	1.03	0.89	1.9E+03	1.02	0.94	1.9E+03	-0.78
	65	1.00	0.89	2.0E+03	0.99	0.93	2.1E+03	-0.80
	66	1.02	0.89	1.9E+03	1.01	0.93	2.0E+03	-0.88
	67	1.03	0.91	1.9E+03	1.02	0.95	2.0E+03	-0.78
	68	1.02	0.89	1.9E+03	1.01	0.93	2.0E+03	-0.88
	69	1.03	0.90	1.9E+03	1.02	0.94	1.9E+03	-0.88
	70	1.03	0.89	1.9E+03	1.02	0.93	1.9E+03	-0.87
	71	1.02	0.89	2.0E+03	1.01	0.94	2.0E+03	-0.78
	72	1.01	0.90	2.0E+03	1.00	0.94	2.0E+03	-0.79
	73	1.03	0.90	2.0E+03	1.02	0.93	1.9E+03	-0.88
	74	1.02	0.89	2.0E+03	1.01	0.92	2.0E+03	-0.88
	75	1.00	0.89	2.0E+03	0.99	0.92	2.0E+03	-1.00
	76	1.02	0.88	1.9E+03	1.01	0.92	1.9E+03	-0.98
	77	1.01	0.89	2.0E+03	1.00	0.92	2.0E+03	-0.89

AEC-Q200 Summary of Test Results

	Murata P/N: GCJ21BR71H105KA01
Manufacturing Location: Philippine Manufacturing Co. of Murata	Lot No: A,B,C
Date before test: 2025/3/19	Date after test: 2025/5/18

#7 - Humidity Bias

Test conditions : 1000hr , 85deg C / 85% RH , 1.3V

	1	1.01	0.89	2.0E+03	1.00	0.93	2.0E+03	-0.99
	2	1.03	0.90	2.0E+03	1.02	0.94	2.0E+03	-0.97
	3	1.02	0.90	2.0E+03	1.01	0.93	2.0E+03	-0.88
	4	1.01	0.90	2.0E+03	1.00	0.93	2.0E+03	-0.89
	5	1.02	0.89	2.0E+03	1.01	0.93	2.0E+03	-0.98
	6	1.03	0.89	2.0E+03	1.02	0.93	2.0E+03	-0.88
	7	1.02	0.89	2.0E+03	1.01	0.93	2.0E+03	-0.88
	8	1.01	0.89	2.0E+03	1.00	0.93	2.0E+03	-0.90
	9	1.02	0.90	2.0E+03	1.01	0.93	2.0E+03	-0.88
	10	1.02	0.89	2.0E+03	1.01	0.93	1.9E+03	-0.98
	11	1.01	0.89	2.0E+03	1.00	0.93	2.0E+03	-0.89
	12	1.02	0.90	2.0E+03	1.01	0.93	2.0E+03	-0.88
	13	1.01	0.89	2.0E+03	1.00	0.93	2.0E+03	-0.90
	14	1.03	0.90	1.9E+03	1.02	0.94	2.0E+03	-0.87
	15	1.02	0.90	2.0E+03	1.02	0.94	2.0E+03	-0.88
	16	1.03	0.89	2.0E+03	1.02	0.93	1.9E+03	-0.97
	17	1.03	0.90	2.0E+03	1.03	0.94	2.0E+03	-0.87
	18	1.01	0.89	2.0E+03	1.00	0.93	2.0E+03	-0.99
	19	1.02	0.90	2.0E+03	1.01	0.93	2.0E+03	-0.98
	20	1.01	0.90	2.1E+03	1.00	0.94	2.1E+03	-0.99
	21	1.02	0.89	2.0E+03	1.01	0.93	1.9E+03	-0.98
	22	1.03	0.90	2.0E+03	1.02	0.94	2.0E+03	-0.88
	23	1.01	0.89	2.0E+03	1.00	0.93	2.0E+03	-0.89
	24	1.02	0.90	2.0E+03	1.01	0.94	2.0E+03	-0.98
	25	1.02	0.89	2.0E+03	1.01	0.93	2.0E+03	-0.89
	26	1.02	0.90	2.0E+03	1.01	0.93	2.0E+03	-0.88
	27	1.02	0.89	2.0E+03	1.02	0.93	2.0E+03	-0.88
	28	1.01	0.89	2.0E+03	1.00	0.93	2.0E+03	-0.89
	29	1.01	0.89	2.0E+03	1.00	0.93	2.0E+03	-0.89
	30	1.02	0.90	2.0E+03	1.01	0.93	1.9E+03	-0.88
	31	1.01	0.90	2.0E+03	1.00	0.93	2.0E+03	-0.89
	32	1.03	0.90	2.0E+03	1.02	0.93	1.9E+03	-0.97
	33	1.02	0.90	2.0E+03	1.01	0.93	2.0E+03	-0.88
	34	1.02	0.90	2.0E+03	1.01	0.93	2.0E+03	-0.88
	35	1.02	0.90	2.0E+03	1.01	0.93	1.9E+03	-0.88
	36	1.02	0.90	2.0E+03	1.01	0.94	2.0E+03	-0.88
	37	1.02	0.90	2.0E+03	1.01	0.93	2.0E+03	-0.88
	38	1.03	0.90	2.0E+03	1.02	0.94	2.0E+03	-0.88
C	39	1.03	0.90	2.0E+03	1.02	0.94	2.0E+03	-0.88
	40	1.03	0.90	2.0E+03	1.02	0.94	2.0E+03	-0.88
	41	1.02	0.90	2.0E+03	1.01	0.94	2.0E+03	-0.89
	42	1.03	0.90	2.0E+03	1.02	0.94	2.0E+03	-0.88
	43	1.02	0.90	2.0E+03	1.01	0.94	2.0E+03	-0.78
	44	1.02	0.89	2.0E+03	1.02	0.93	1.9E+03	-0.88
	45	1.02	0.89	2.0E+03	1.02	0.93	2.0E+03	-0.88
	46	1.01	0.89	2.0E+03	1.00	0.93	2.0E+03	-0.79
	47	1.03	0.89	1.9E+03	1.02	0.93	2.0E+03	-0.87
	48	1.02	0.89	2.0E+03	1.02	0.93	2.0E+03	-0.88
	49	1.01	0.90	2.0E+03	1.00	0.94	2.0E+03	-0.89
	50	1.02	0.90	2.0E+03	1.01	0.94	2.0E+03	-0.79
	51	1.02	0.89	1.9E+03	1.02	0.93	1.9E+03	-0.88
	52	1.02	0.90	2.0E+03	1.01	0.94	2.0E+03	-0.88
	53	1.02	0.90	2.0E+03	1.01	0.94	2.0E+03	-0.88
	54	1.02	0.90	2.0E+03	1.01	0.94	1.9E+03	-0.88
	55	1.02	0.90	2.0E+03	1.02	0.94	2.0E+03	-0.88
	56	1.02	0.89	2.0E+03	1.01	0.93	2.0E+03	-0.88
	57	1.01	0.89	2.0E+03	1.00	0.93	2.0E+03	-0.89
	58	1.01	0.90	2.0E+03	1.00	0.93	2.0E+03	-0.89
	59	1.01	0.89	2.0E+03	1.01	0.93	2.0E+03	-0.89
	60	1.01	0.89	2.0E+03	1.00	0.93	2.0E+03	-0.89
	61	1.02	0.90	2.0E+03	1.01	0.93	2.0E+03	-0.79
	62	1.01	0.89	2.0E+03	1.00	0.93	2.0E+03	-0.79
	63	1.02	0.89	2.0E+03	1.01	0.93	2.0E+03	-0.88
	64	1.02	0.89	1.9E+03	1.02	0.93	2.0E+03	-0.78
	65	1.01	0.89	2.0E+03	1.00	0.93	2.0E+03	-0.89
	66	1.02	0.89	2.0E+03	1.01	0.93	2.0E+03	-0.79
	67	1.03	0.90	2.0E+03	1.02	0.94	2.0E+03	-0.88
	68	1.03	0.89	2.0E+03	1.02	0.93	2.0E+03	-0.88
	69	1.01	0.90	2.0E+03	1.00	0.94	2.0E+03	-0.89
	70	1.03	0.90	1.9E+03	1.02	0.94	2.0E+03	-0.87
	71	1.01	0.90	2.0E+03	1.00	0.94	2.1E+03	-0.89
	72	1.02	0.90	2.0E+03	1.01	0.94	2.0E+03	-0.88
	73	1.03	0.89	2.0E+03	1.02	0.89	1.9E+03	-0.88
	74	1.01	0.89	2.0E+03	1.00	0.93	2.0E+03	-0.89
	75	1.02	0.89	1.9E+03	1.01	0.93	2.0E+03	-0.88
	76	1.02	0.89	2.0E+03	1.01	0.94	2.0E+03	-0.88
	77	1.02	0.88	1.9E+03	1.01	0.92	2.0E+03	-0.88

AEC-Q200 Summary of Test Results

	Murata P/N: GCJ21BR71H105KA01
Manufacturing Location: Philippine Manufacturing Co. of Murata	Lot No: A,B,C
Date before test: 2025/3/15	Date after test: 2025/5/8

#8 - High Temperature Operating Life

Test conditions : 1000hr ,125deg C , 1.5WV

No. of samples:	77	Initial readings			Final readings			
No. of lots:	3	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Change in capacitance %
Spec limits	lower	0.90		5.0E+02			5.0E+01	-12.50
	upper	1.10	5.00			5.00		12.50
Measurement Statistics	mean	1.015	0.883	1.9E+03	1.007	1.007	2.0E+03	-0.815
	maximum	1.04	1.02	2.0E+03	1.04	1.11	2.1E+03	-0.68
	minimum	1.00	0.87	1.8E+03	0.99	0.97	1.8E+03	-1.17
	standard deviation	0.0072	0.0104	2.3E+01	0.0071	0.0236	5.6E+01	0.0931

Test Data

Lot No	Sample	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Change in capacitance %
A	1	1.01	0.88	2.0E+03	1.00	0.99	2.0E+03	-0.89
	2	1.02	0.88	1.9E+03	1.02	0.98	1.9E+03	-0.88
	3	1.02	0.88	1.9E+03	1.01	0.99	2.0E+03	-0.88
	4	1.01	0.88	2.0E+03	1.00	0.99	2.0E+03	-0.79
	5	1.01	0.88	2.0E+03	1.00	0.99	2.0E+03	-0.79
	6	1.02	0.88	2.0E+03	1.01	0.99	2.0E+03	-0.89
	7	1.01	0.88	2.0E+03	1.00	0.99	2.0E+03	-0.79
	8	1.03	0.89	1.9E+03	1.02	1.00	1.9E+03	-0.78
	9	1.02	0.87	1.9E+03	1.01	0.98	1.9E+03	-0.79
	10	1.01	0.88	1.9E+03	1.00	0.98	1.9E+03	-0.89
	11	1.01	0.88	1.9E+03	1.00	0.98	2.0E+03	-0.89
	12	1.01	0.88	1.9E+03	1.00	0.98	1.9E+03	-0.89
	13	1.03	0.88	1.9E+03	1.02	0.99	1.9E+03	-0.78
	14	1.02	0.88	1.9E+03	1.01	0.99	2.0E+03	-0.79
	15	1.02	0.89	1.9E+03	1.01	1.00	1.9E+03	-0.88
	16	1.01	0.88	1.9E+03	1.00	0.98	2.0E+03	-0.89
	17	1.01	0.88	1.9E+03	1.00	0.98	2.0E+03	-0.89
	18	1.02	0.88	1.9E+03	1.01	1.00	2.0E+03	-0.88
	19	1.02	0.89	1.9E+03	1.02	0.99	2.0E+03	-0.88
	20	1.02	0.88	1.9E+03	1.01	0.98	1.9E+03	-0.88
	21	1.02	0.88	1.9E+03	1.01	0.98	2.0E+03	-0.79
	22	1.03	0.88	1.9E+03	1.02	0.98	1.9E+03	-0.88
	23	1.02	0.88	1.9E+03	1.01	0.98	2.0E+03	-0.88
	24	1.04	0.89	1.9E+03	1.04	0.99	1.9E+03	-0.86
	25	1.02	0.88	1.9E+03	1.01	0.98	1.9E+03	-0.79
	26	1.02	0.89	1.9E+03	1.01	0.99	1.9E+03	-0.88
	27	1.00	0.87	2.0E+03	0.99	0.97	2.0E+03	-0.80
	28	1.00	0.88	1.9E+03	1.00	0.98	2.0E+03	-0.70
	29	1.00	0.88	1.9E+03	1.00	0.97	2.0E+03	-0.80
	30	1.01	0.88	1.9E+03	1.00	0.97	2.0E+03	-0.79
	31	1.01	0.88	1.9E+03	1.01	0.97	2.0E+03	-0.79
	32	1.00	0.88	1.9E+03	0.99	0.97	2.0E+03	-0.80
	33	1.02	0.88	1.9E+03	1.02	0.98	1.9E+03	-0.78
	34	1.03	0.88	1.9E+03	1.02	0.97	1.9E+03	-0.78
	35	1.02	0.88	1.9E+03	1.01	0.98	1.9E+03	-0.78
	36	1.01	0.88	1.9E+03	1.00	0.98	2.0E+03	-0.89
	37	1.02	0.88	1.9E+03	1.02	0.98	1.9E+03	-0.88
	38	1.00	0.88	2.0E+03	0.99	0.99	2.0E+03	-0.80
	39	1.02	0.88	1.9E+03	1.01	0.99	1.9E+03	-0.78
	40	1.00	0.88	2.0E+03	1.00	0.99	2.0E+03	-0.70
	41	1.02	0.88	1.9E+03	1.01	0.98	1.9E+03	-0.78
	42	1.02	0.88	1.9E+03	1.02	0.99	1.9E+03	-0.78
	43	1.02	0.88	1.9E+03	1.01	0.98	1.9E+03	-0.79
	44	1.01	0.88	1.9E+03	1.00	0.98	1.9E+03	-0.79
	45	1.02	0.88	1.9E+03	1.01	0.98	1.9E+03	-0.79
	46	1.02	0.87	1.9E+03	1.01	0.98	1.9E+03	-0.79
	47	1.02	0.88	1.9E+03	1.01	0.98	1.9E+03	-0.89
	48	1.01	0.88	1.9E+03	1.00	0.98	2.0E+03	-0.79
	49	1.01	0.88	1.9E+03	1.00	0.98	2.0E+03	-0.89
	50	1.02	0.88	1.9E+03	1.01	0.99	1.9E+03	-0.78
	51	1.01	0.88	1.9E+03	1.00	0.99	1.9E+03	-0.89
	52	1.01	0.88	1.9E+03	1.00	0.99	2.0E+03	-0.89
	53	1.01	0.88	1.9E+03	1.00	0.99	1.9E+03	-0.89
	54	1.02	0.89	1.9E+03	1.01	1.00	1.9E+03	-0.98
	55	1.02	0.88	1.9E+03	1.01	0.99	1.9E+03	-0.79
	56	1.02	0.88	1.9E+03	1.01	0.97	1.9E+03	-0.78
	57	1.02	0.88	1.9E+03	1.01	0.98	1.9E+03	-0.78
	58	1.02	0.89	1.9E+03	1.01	0.98	1.9E+03	-0.79
	59	1.03	0.87	1.9E+03	1.02	0.97	1.9E+03	-0.78
	60	1.02	0.88	1.9E+03	1.01	0.98	1.9E+03	-0.79
	61	1.02	0.88	1.9E+03	1.01	0.98	1.9E+03	-0.78
	62	1.01	0.88	1.9E+03	1.00	0.98	1.9E+03	-0.79
	63	1.02	0.88	1.9E+03	1.01	0.98	1.9E+03	-0.69
	64	1.01	0.87	1.9E+03	1.00	0.98	1.9E+03	-0.79
	65	1.01	0.88	1.9E+03	1.01	0.98	1.9E+03	-0.79
	66	1.02	0.88	1.9E+03	1.01	0.98	1.9E+03	-0.78
	67	1.02	0.88	1.9E+03	1.01	0.98	1.9E+03	-0.79
	68	1.01	0.88	1.9E+03	1.01	0.99	1.9E+03	-0.79
	69	1.02	0.88	1.9E+03	1.01	0.98	1.9E+03	-0.88
	70	1.03	0.89	1.9E+03	1.03	1.00	1.9E+03	-0.87
	71	1.02	0.88	1.9E+03	1.01	0.99	2.0E+03	-0.88
	72	1.03	0.88	1.8E+03	1.02	1.00	1.9E+03	-0.87
	73	1.01	0.88	1.9E+03	1.00	0.99	1.9E+03	-0.89
	74	1.02	0.88	1.9E+03	1.01	0.99	1.9E+03	-0.88
	75	1.02	0.88	1.9E+03	1.01	0.99	1.9E+03	-0.79
	76	1.02	0.88	1.9E+03	1.01	0.98	1.9E+03	-0.79
	77	1.02	0.88	1.9E+03	1.01	0.99	1.9E+03	-0.88

AEC-Q200 Summary of Test Results

	Murata P/N: GCJ21BR71H105KA01
Manufacturing Location: Philippine Manufacturing Co. of Murata	Lot No: A,B,C
Date before test: 2025/3/15	Date after test: 2025/5/8

#8 - High Temperature Operating Life

Test conditions : 1000hr ,125deg C , 1.5WV

	1	1.02	0.88	1.9E+03	1.01	1.04	2.0E+03	-0.98
	2	1.02	0.88	1.9E+03	1.01	1.02	1.9E+03	-0.88
	3	1.02	0.88	1.9E+03	1.01	1.01	2.0E+03	-0.88
	4	1.02	0.88	1.9E+03	1.01	1.01	1.9E+03	-0.79
	5	1.02	0.89	1.9E+03	1.01	1.01	1.8E+03	-0.89
	6	1.01	0.88	1.9E+03	1.00	1.00	2.0E+03	-0.69
	7	1.02	0.88	1.9E+03	1.01	1.01	1.9E+03	-0.78
	8	1.02	0.88	1.9E+03	1.01	1.00	1.9E+03	-0.69
	9	1.01	0.89	1.9E+03	1.00	1.00	1.9E+03	-0.69
	10	1.01	0.88	1.9E+03	1.00	1.00	2.0E+03	-0.69
	11	1.01	0.88	1.9E+03	1.01	1.00	1.8E+03	-0.79
	12	1.02	0.88	1.9E+03	1.01	0.99	1.9E+03	-0.69
	13	1.01	0.89	1.9E+03	1.00	1.00	2.0E+03	-0.69
	14	1.02	0.88	1.9E+03	1.01	0.99	1.8E+03	-0.79
	15	1.01	0.88	1.9E+03	1.00	1.00	2.0E+03	-0.70
	16	1.02	0.88	1.9E+03	1.01	0.99	2.0E+03	-0.69
	17	1.03	0.88	1.9E+03	1.02	1.00	1.9E+03	-0.78
	18	1.02	0.89	1.9E+03	1.01	1.01	2.0E+03	-0.69
	19	1.02	0.88	1.9E+03	1.01	1.04	2.0E+03	-0.98
	20	1.01	0.88	1.9E+03	1.00	1.02	1.8E+03	-1.08
	21	1.02	0.88	1.9E+03	1.01	1.02	2.0E+03	-0.88
	22	1.01	0.88	1.9E+03	1.00	1.01	1.8E+03	-0.89
	23	1.02	0.88	1.9E+03	1.01	1.01	2.0E+03	-0.78
	24	1.02	0.89	1.9E+03	1.01	1.02	1.9E+03	-0.78
	25	1.01	0.89	1.9E+03	1.01	1.02	2.0E+03	-0.69
	26	1.02	0.88	1.9E+03	1.01	1.01	1.9E+03	-0.69
	27	1.01	0.88	1.9E+03	1.00	1.01	2.0E+03	-0.70
	28	1.03	0.89	1.9E+03	1.02	1.01	2.0E+03	-0.78
	29	1.01	0.88	1.9E+03	1.00	1.01	2.0E+03	-0.69
	30	1.02	0.88	1.9E+03	1.01	1.01	1.8E+03	-0.89
	31	1.02	0.88	1.9E+03	1.01	1.01	2.0E+03	-0.69
	32	1.01	0.88	1.9E+03	1.00	1.00	2.0E+03	-0.70
	33	1.01	0.88	1.9E+03	1.00	1.01	2.0E+03	-0.70
	34	1.02	0.88	1.9E+03	1.01	1.00	2.0E+03	-0.69
	35	1.01	0.88	1.9E+03	1.00	1.00	1.9E+03	-0.69
	36	1.00	1.02	1.9E+03	0.99	1.11	2.0E+03	-0.80
	37	1.01	0.88	1.9E+03	1.00	1.04	2.0E+03	-0.89
	38	1.02	0.88	1.9E+03	1.01	1.02	2.0E+03	-0.88
B	39	1.01	0.89	1.9E+03	1.00	1.03	2.0E+03	-0.79
	40	1.00	0.88	2.0E+03	0.99	1.02	2.1E+03	-0.80
	41	1.02	0.88	1.9E+03	1.01	1.02	1.9E+03	-0.69
	42	1.02	0.88	1.9E+03	1.01	1.02	2.0E+03	-0.69
	43	1.01	0.88	1.9E+03	1.00	1.01	2.0E+03	-0.70
	44	1.01	0.88	1.9E+03	1.01	1.01	1.9E+03	-0.79
	45	1.01	0.88	1.9E+03	1.00	1.01	2.0E+03	-0.69
	46	1.01	0.88	1.9E+03	1.00	1.00	2.0E+03	-0.70
	47	1.01	0.88	1.9E+03	1.00	1.00	1.9E+03	-0.79
	48	1.02	0.88	1.9E+03	1.01	1.01	1.9E+03	-0.79
	49	1.02	0.89	1.9E+03	1.01	1.01	2.0E+03	-0.69
	50	1.01	0.88	1.9E+03	1.01	1.00	1.9E+03	-0.79
	51	1.01	0.88	1.9E+03	1.01	1.01	2.0E+03	-0.69
	52	1.02	0.88	1.9E+03	1.01	1.01	1.9E+03	-0.69
	53	1.02	0.89	1.9E+03	1.01	1.01	2.0E+03	-0.79
	54	1.02	0.89	1.9E+03	1.01	1.02	2.0E+03	-0.79
	55	1.01	0.88	1.9E+03	1.00	1.07	2.1E+03	-0.99
	56	1.02	0.88	1.9E+03	1.01	1.05	2.0E+03	-0.98
	57	1.02	0.88	1.9E+03	1.01	1.04	2.0E+03	-0.79
	58	1.01	0.89	1.9E+03	1.00	1.04	2.0E+03	-0.79
	59	1.02	0.88	1.9E+03	1.01	1.03	1.9E+03	-0.78
	60	1.00	0.88	1.9E+03	1.00	1.02	2.0E+03	-0.70
	61	1.02	0.88	1.9E+03	1.01	1.02	1.9E+03	-0.78
	62	1.01	0.88	1.9E+03	1.01	1.02	2.0E+03	-0.69
	63	1.01	0.88	1.9E+03	1.00	1.02	2.0E+03	-0.69
	64	1.01	0.88	1.9E+03	1.01	1.02	2.0E+03	-0.69
	65	1.01	0.88	1.9E+03	1.00	1.01	2.0E+03	-0.80
	66	1.01	0.88	1.9E+03	1.00	1.01	2.0E+03	-0.70
	67	1.01	0.89	1.9E+03	1.01	1.02	2.0E+03	-0.79
	68	1.02	0.88	1.9E+03	1.01	1.01	2.0E+03	-0.69
	69	1.01	0.88	1.9E+03	1.00	1.01	2.0E+03	-0.69
	70	1.02	0.88	1.9E+03	1.01	1.01	2.0E+03	-0.78
	71	1.02	0.88	1.9E+03	1.01	1.01	2.0E+03	-0.79
	72	1.01	0.88	1.9E+03	1.00	1.01	1.8E+03	-0.89
	73	1.02	0.88	1.9E+03	1.01	1.10	2.0E+03	-1.08
	74	1.01	0.88	1.9E+03	1.00	1.07	2.0E+03	-1.00
	75	1.01	0.88	1.9E+03	1.00	1.06	2.0E+03	-0.89
	76	1.01	0.88	1.9E+03	1.00	1.05	1.8E+03	-0.99
	77	1.01	0.88	1.9E+03	1.01	1.05	2.0E+03	-0.89

AEC-Q200 Summary of Test Results

	Murata P/N: GCJ21BR71H105KA01
Manufacturing Location: Philippine Manufacturing Co. of Murata	Lot No: A,B,C
Date before test: 2025/3/15	Date after test: 2025/5/8

#8 - High Temperature Operating Life

Test conditions : 1000hr , 125deg C , 1.5WV

	1	1.03	0.89	1.9E+03	1.02	1.04	2.0E+03	-0.97
	2	1.02	0.88	1.9E+03	1.01	1.04	2.0E+03	-0.88
	3	1.02	0.88	1.9E+03	1.02	1.03	2.0E+03	-0.88
	4	1.02	0.88	1.9E+03	1.02	1.03	2.0E+03	-0.88
	5	1.01	0.88	1.9E+03	1.00	1.02	2.0E+03	-0.79
	6	1.02	0.89	1.9E+03	1.01	1.02	2.0E+03	-0.78
	7	1.02	0.88	1.9E+03	1.01	1.01	2.0E+03	-0.79
	8	1.00	0.88	2.0E+03	1.00	1.01	2.1E+03	-0.80
	9	1.02	0.89	1.9E+03	1.02	1.01	2.0E+03	-0.88
	10	1.02	0.89	1.9E+03	1.01	1.01	2.0E+03	-0.79
	11	1.01	0.88	1.9E+03	1.00	1.00	2.0E+03	-0.80
	12	1.02	0.89	1.9E+03	1.01	1.01	2.0E+03	-0.79
	13	1.00	0.89	2.0E+03	0.99	1.01	2.0E+03	-0.80
	14	1.01	0.88	1.9E+03	1.00	1.01	2.0E+03	-0.79
	15	1.02	0.89	1.9E+03	1.01	1.01	2.0E+03	-0.79
	16	1.02	0.88	1.9E+03	1.02	1.01	2.0E+03	-0.88
	17	1.03	0.90	1.9E+03	1.02	1.03	2.0E+03	-0.78
	18	1.02	0.89	1.9E+03	1.01	1.02	2.0E+03	-0.88
	19	1.02	0.88	1.9E+03	1.01	1.05	2.1E+03	-0.98
	20	1.02	0.89	1.9E+03	1.01	1.04	2.0E+03	-0.88
	21	1.02	0.88	1.9E+03	1.01	1.03	2.0E+03	-0.79
	22	1.01	0.88	1.9E+03	1.01	1.02	2.0E+03	-0.69
	23	1.01	0.89	1.9E+03	1.00	1.01	2.0E+03	-0.69
	24	1.02	0.88	1.9E+03	1.02	1.01	2.0E+03	-0.68
	25	1.02	0.88	1.9E+03	1.01	1.01	2.0E+03	-0.69
	26	1.02	0.89	1.9E+03	1.01	1.01	2.0E+03	-0.69
	27	1.02	0.88	1.9E+03	1.01	1.00	2.0E+03	-0.69
	28	1.01	0.88	1.9E+03	1.00	1.00	2.0E+03	-0.70
	29	1.02	0.88	1.9E+03	1.01	1.00	2.0E+03	-0.69
	30	1.00	0.88	2.0E+03	1.00	1.00	2.1E+03	-0.70
	31	1.02	0.89	1.9E+03	1.01	1.00	2.0E+03	-0.69
	32	1.01	0.88	1.9E+03	1.01	1.00	2.0E+03	-0.69
	33	1.02	0.88	1.9E+03	1.01	1.00	2.0E+03	-0.69
	34	1.03	0.88	1.9E+03	1.02	1.00	2.0E+03	-0.68
	35	1.02	0.88	1.9E+03	1.01	1.00	2.0E+03	-0.79
	36	1.02	0.89	1.9E+03	1.01	0.99	2.0E+03	-0.79
	37	1.01	0.89	2.0E+03	1.00	1.05	2.1E+03	-0.99
	38	1.02	0.89	1.9E+03	1.01	1.03	2.0E+03	-0.88
C	39	1.01	0.89	1.9E+03	1.00	1.03	2.0E+03	-0.99
	40	1.03	0.90	1.9E+03	1.02	1.04	2.0E+03	-0.97
	41	1.02	0.88	1.9E+03	1.02	1.02	2.0E+03	-0.78
	42	1.02	0.89	1.9E+03	1.01	1.02	2.0E+03	-0.88
	43	1.02	0.89	1.9E+03	1.01	1.02	2.0E+03	-0.88
	44	1.01	0.89	1.9E+03	1.00	1.02	2.0E+03	-0.89
	45	1.01	0.89	1.9E+03	1.00	1.02	2.0E+03	-0.79
	46	1.00	0.88	1.9E+03	1.00	1.01	2.0E+03	-0.90
	47	1.02	0.89	1.9E+03	1.01	1.02	2.0E+03	-0.79
	48	1.01	0.88	1.9E+03	1.00	1.01	2.0E+03	-0.79
	49	1.02	0.89	1.9E+03	1.01	1.02	2.0E+03	-0.79
	50	1.01	0.88	1.9E+03	1.00	1.01	2.0E+03	-0.89
	51	1.01	0.89	1.9E+03	1.01	1.01	2.0E+03	-0.79
	52	1.01	0.89	1.9E+03	1.00	1.02	2.0E+03	-0.79
	53	1.02	0.89	1.9E+03	1.01	1.02	2.0E+03	-0.88
	54	1.02	0.89	1.9E+03	1.01	1.03	2.0E+03	-0.88
	55	1.02	0.89	1.9E+03	1.01	1.06	2.1E+03	-1.17
	56	1.02	0.89	2.0E+03	1.01	1.05	2.1E+03	-0.98
	57	1.03	0.89	1.9E+03	1.02	1.04	2.0E+03	-0.97
	58	1.02	0.89	1.9E+03	1.01	1.02	2.0E+03	-0.89
	59	1.02	0.89	1.9E+03	1.01	1.02	2.0E+03	-0.88
	60	1.03	0.89	1.9E+03	1.02	1.02	2.0E+03	-0.87
	61	1.01	0.88	1.9E+03	1.00	1.01	2.0E+03	-0.89
	62	1.02	0.89	1.9E+03	1.01	1.02	2.0E+03	-0.78
	63	1.02	0.88	1.9E+03	1.01	1.01	2.0E+03	-0.79
	64	1.01	0.89	1.9E+03	1.00	1.01	2.0E+03	-0.79
	65	1.02	0.89	1.9E+03	1.01	1.01	2.0E+03	-0.79
	66	1.01	0.89	1.9E+03	1.00	1.01	2.0E+03	-0.79
	67	1.02	0.89	1.9E+03	1.01	1.01	2.0E+03	-0.79
	68	1.03	0.90	2.0E+03	1.02	1.02	2.0E+03	-0.78
	69	1.01	0.89	1.9E+03	1.00	1.01	2.0E+03	-0.80
	70	1.01	0.89	1.9E+03	1.00	1.01	2.0E+03	-0.79
	71	1.03	0.89	1.9E+03	1.02	1.01	2.0E+03	-0.88
	72	1.01	0.89	1.9E+03	1.00	1.03	2.0E+03	-0.89
	73	1.02	0.88	1.9E+03	1.01	1.08	2.1E+03	-1.08
	74	1.01	0.88	1.9E+03	1.00	1.06	2.1E+03	-0.99
	75	1.01	0.88	2.0E+03	1.00	1.06	2.1E+03	-0.99
	76	1.01	0.88	1.9E+03	1.00	1.05	2.1E+03	-0.99
	77	1.00	0.87	2.0E+03	0.99	1.03	2.1E+03	-1.00

AEC-Q200 Summary of Test Results

	Murata P/N: GCJ21BR71H105KA01
Manufacturing Location: Philippine Manufacturing Co. of Murata	

#9 - External Visual

all qualification parts	Number of failures: 0

	Test No.	Result (pass/fail)
	3	pass
	4	pass
	5	pass
	6	pass
	7-1	pass
	7-2	pass
	8	pass
	10	pass
	12-1	pass
	12-2	pass
	12-3	pass
	13	pass
	14	pass
	15	pass
	17	pass
	18	pass
	19	pass
	21	pass
	22	pass
	23	pass

AEC-Q200 Summary of Test Results

	Murata P/N: GCJ21BR71H105KA01
Manufacturing Location: Philippine Manufacturing Co. of Murata	Lot No: A,B,C
Date before test: 2025/4/7	Date after test: 2025/6/2

#13 - Mechanical Shock

Test conditions : Shock pulse : 1500g's, 0.5ms, 4.7m/s, 3 times each of 6 orientations

No. of samples:	30	Initial readings			Final readings			
No. of lots:	3	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Change in capacitance %
Spec limits	lower	0.90		5.0E+02	0.90		5.0E+02	
	upper	1.10	5.00		1.10	5.00		
Measurement Statistics	mean	1.015	0.859	1.9E+03	0.998	0.873	2.1E+03	-1.737
	maximum	1.03	0.89	2.0E+03	1.01	0.93	2.3E+03	-1.38
	minimum	1.00	0.85	1.7E+03	0.98	0.85	1.9E+03	-1.85
	standard deviation	0.0072	0.0063	6.5E+01	0.0069	0.0134	8.5E+01	0.0631

Test Data

Lot No	Sample	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Change in capacitance %
A	1	1.02	0.86	1.9E+03	1.00	0.86	2.1E+03	-1.78
	2	1.02	0.86	1.8E+03	1.00	0.87	2.1E+03	-1.74
	3	1.01	0.85	1.8E+03	0.99	0.87	2.2E+03	-1.77
	4	1.03	0.86	1.9E+03	1.01	0.88	2.1E+03	-1.74
	5	1.03	0.86	1.8E+03	1.01	0.89	2.1E+03	-1.71
	6	1.01	0.86	1.8E+03	0.99	0.87	2.1E+03	-1.72
	7	1.01	0.85	1.8E+03	0.99	0.86	2.1E+03	-1.70
	8	1.02	0.86	1.8E+03	1.01	0.89	2.1E+03	-1.67
	9	1.02	0.86	1.9E+03	1.00	0.88	2.1E+03	-1.73
	10	1.02	0.86	1.9E+03	1.00	0.87	2.1E+03	-1.73
	11	1.02	0.85	1.9E+03	1.00	0.87	2.2E+03	-1.73
	12	1.02	0.85	1.9E+03	1.00	0.86	2.2E+03	-1.73
	13	1.01	0.86	1.9E+03	0.99	0.86	2.1E+03	-1.74
	14	1.02	0.86	1.9E+03	1.00	0.87	2.2E+03	-1.77
	15	1.00	0.86	1.9E+03	0.99	0.92	2.1E+03	-1.38
	16	1.01	0.88	1.9E+03	0.99	0.93	2.1E+03	-1.74
	17	1.01	0.86	1.9E+03	0.99	0.88	2.2E+03	-1.65
	18	1.02	0.86	1.9E+03	1.00	0.90	2.1E+03	-1.61
	19	1.00	0.86	1.9E+03	0.98	0.87	2.0E+03	-1.73
	20	1.01	0.86	1.7E+03	0.99	0.87	2.0E+03	-1.71
	21	1.01	0.86	1.8E+03	0.99	0.87	1.9E+03	-1.73
	22	1.02	0.86	1.7E+03	1.00	0.87	2.0E+03	-1.69
	23	1.01	0.86	1.7E+03	0.99	0.87	1.9E+03	-1.67
	24	1.01	0.86	1.8E+03	0.99	0.87	2.0E+03	-1.70
	25	1.00	0.86	1.8E+03	0.98	0.88	2.0E+03	-1.63
	26	1.01	0.86	1.7E+03	0.99	0.87	2.0E+03	-1.73
	27	1.02	0.88	1.8E+03	1.00	0.86	2.0E+03	-1.71
	28	1.02	0.86	1.9E+03	1.00	0.87	2.1E+03	-1.69
	29	1.02	0.86	1.9E+03	1.00	0.87	2.1E+03	-1.69
	30	1.02	0.86	1.9E+03	1.00	0.86	2.0E+03	-1.71
B	1	1.01	0.87	1.9E+03	1.00	0.86	2.1E+03	-1.84
	2	1.01	0.86	1.9E+03	1.00	0.86	2.0E+03	-1.79
	3	1.01	0.86	1.9E+03	0.99	0.86	2.1E+03	-1.77
	4	1.01	0.86	1.9E+03	0.99	0.86	2.1E+03	-1.79
	5	1.01	0.86	1.8E+03	1.00	0.86	2.1E+03	-1.80
	6	1.00	0.86	2.0E+03	0.98	0.86	2.1E+03	-1.76
	7	1.02	0.86	1.8E+03	1.00	0.87	2.0E+03	-1.73
	8	1.02	0.87	1.9E+03	1.00	0.87	2.0E+03	-1.77
	9	1.00	0.85	1.9E+03	0.98	0.87	2.1E+03	-1.74
	10	1.01	0.86	1.9E+03	0.99	0.86	1.9E+03	-1.76
	11	1.01	0.86	2.0E+03	0.99	0.87	2.1E+03	-1.78
	12	1.01	0.86	1.9E+03	0.99	0.86	2.1E+03	-1.80
	13	1.02	0.86	2.0E+03	1.00	0.87	2.2E+03	-1.79
	14	1.01	0.86	1.9E+03	0.99	0.86	2.2E+03	-1.72
	15	1.01	0.86	1.9E+03	0.99	0.86	2.2E+03	-1.78
	16	1.01	0.86	2.0E+03	0.99	0.87	2.3E+03	-1.77
	17	1.01	0.85	2.0E+03	1.00	0.87	2.3E+03	-1.76
	18	1.00	0.86	1.9E+03	0.99	0.86	2.2E+03	-1.70
	19	1.02	0.86	1.8E+03	1.00	0.87	2.0E+03	-1.75
	20	1.02	0.86	1.8E+03	1.00	0.87	2.1E+03	-1.73
	21	1.01	0.86	1.8E+03	0.99	0.89	2.0E+03	-1.69
	22	1.01	0.86	1.8E+03	0.99	0.87	2.0E+03	-1.76
	23	1.01	0.86	1.7E+03	1.00	0.88	2.0E+03	-1.68
	24	1.01	0.89	1.8E+03	1.00	0.87	2.0E+03	-1.73
	25	1.01	0.85	1.8E+03	0.99	0.88	2.0E+03	-1.76
	26	1.01	0.86	1.9E+03	1.00	0.87	2.1E+03	-1.64
	27	1.01	0.86	1.8E+03	0.99	0.87	2.0E+03	-1.67
	28	1.01	0.86	1.9E+03	0.99	0.85	2.1E+03	-1.81
	29	1.01	0.86	1.9E+03	0.99	0.88	2.1E+03	-1.76
	30	1.01	0.86	1.9E+03	0.99	0.86	2.1E+03	-1.75
C	1	1.03	0.85	1.8E+03	1.01	0.86	2.1E+03	-1.80
	2	1.03	0.86	1.9E+03	1.01	0.87	2.0E+03	-1.85
	3	1.02	0.86	1.8E+03	1.00	0.86	2.0E+03	-1.79
	4	1.02	0.86	1.9E+03	1.00	0.86	2.1E+03	-1.83
	5	1.02	0.86	1.9E+03	1.01	0.90	2.1E+03	-1.83
	6	1.02	0.85	1.9E+03	1.00	0.87	2.1E+03	-1.78
	7	1.01	0.86	1.9E+03	1.00	0.88	2.0E+03	-1.77
	8	1.03	0.85	1.8E+03	1.01	0.87	2.0E+03	-1.78
	9	1.02	0.85	1.8E+03	1.00	0.86	2.1E+03	-1.81
	10	1.03	0.86	1.9E+03	1.01	0.88	2.2E+03	-1.78
	11	1.01	0.87	2.0E+03	0.99	0.87	2.3E+03	-1.77
	12	1.02	0.85	1.9E+03	1.00	0.86	2.1E+03	-1.81
	13	1.02	0.86	1.9E+03	1.00	0.88	2.1E+03	-1.76
	14	1.03	0.86	1.9E+03	1.01	0.87	2.0E+03	-1.80
	15	1.01	0.85	1.9E+03	0.99	0.87	2.0E+03	-1.80
	16	1.02	0.86	2.0E+03	1.01	0.90	2.2E+03	-1.73
	17	1.02	0.86	1.8E+03	1.00	0.87	2.1E+03	-1.73
	18	1.02	0.87	1.9E+03	1.00	0.88	2.2E+03	-1.74
	19	1.01	0.86	1.8E+03	0.99	0.86	2.0E+03	-1.75
	20	1.02	0.86	1.8E+03	1.01	0.90	2.0E+03	-1.78
	21	1.02	0.85	1.8E+03	1.01	0.87	2.0E+03	-1.73
	22	1.02	0.85	1.8E+03	1.00	0.87	2.0E+03	-1.73
	23	1.02	0.86	1.9E+03	1.01	0.90	2.0E+03	-1.64
	24	1.02	0.85	1.8E+03	1.00	0.90	2.0E+03	-1.58
	25	1.01	0.85	1.8E+03	0.99	0.87	2.0E+03	-1.73
	26	1.01	0.85	1.8E+03	1.00	0.88	2.0E+03	-1.70
	27	1.01	0.85	1.9E+03	0.99	0.88	2.0E+03	-1.70
	28	1.02	0.85	1.9E+03	1.01	0.87	2.1E+03	-1.73
	29	1.01	0.86	1.9E+03	0.99	0.87	2.1E+03	-1.77
	30	1.03	0.85	1.9E+03	1.01	0.86	2.0E+03	-1.74

AEC-Q200 Summary of Test Results

	Murata P/N: GCJ21BR71H105KA01
Manufacturing Location: Philippine Manufacturing Co. of Murata	Lot No: A
Date before test: 2025/6/17	

#10 - Physical Dimensions

Number of Samples: 30 Number of Lots: 1		Readings at Room Temp: 25C					
		L [mm]	W [mm]	T [mm]	e1 [mm]	e2 [mm]	g [mm]
Spec limits	lower	1.70	1.05	1.05	0.20	0.20	0.70
	upper	2.30	1.45	1.45	0.70	0.70	
Measurement Statistics	mean	2.096	1.301	1.275	0.627	0.623	0.853
	maximum	2.12	1.31	1.30	0.69	0.67	0.98
	minimum	2.09	1.29	1.27	0.53	0.55	0.75
	standard deviation	0.0084	0.0051	0.0057	0.0322	0.0318	0.0524
Lot No	Sample	L [mm]	W [mm]	T [mm]	e1 [mm]	e2 [mm]	g [mm]
A	1	2.10	1.30	1.30	0.62	0.61	0.89
	2	2.11	1.30	1.27	0.65	0.58	0.87
	3	2.11	1.30	1.28	0.63	0.62	0.86
	4	2.10	1.30	1.27	0.63	0.63	0.84
	5	2.09	1.30	1.28	0.64	0.67	0.79
	6	2.09	1.31	1.27	0.66	0.60	0.84
	7	2.11	1.30	1.27	0.62	0.65	0.84
	8	2.09	1.30	1.27	0.64	0.65	0.82
	9	2.11	1.30	1.27	0.57	0.60	0.94
	10	2.09	1.31	1.28	0.61	0.58	0.92
	11	2.09	1.30	1.27	0.63	0.61	0.88
	12	2.09	1.31	1.28	0.60	0.66	0.82
	13	2.09	1.30	1.27	0.64	0.67	0.80
	14	2.09	1.31	1.28	0.64	0.55	0.91
	15	2.09	1.29	1.29	0.53	0.60	0.98
	16	2.10	1.29	1.27	0.62	0.61	0.88
	17	2.09	1.30	1.28	0.64	0.67	0.79
	18	2.09	1.29	1.27	0.65	0.64	0.81
	19	2.10	1.30	1.27	0.64	0.65	0.82
	20	2.10	1.30	1.27	0.64	0.59	0.87
	21	2.09	1.30	1.28	0.63	0.65	0.82
	22	2.11	1.30	1.28	0.67	0.62	0.82
	23	2.09	1.31	1.28	0.59	0.57	0.94
	24	2.09	1.30	1.28	0.62	0.63	0.87
	25	2.09	1.31	1.28	0.64	0.63	0.84
	26	2.10	1.31	1.27	0.63	0.66	0.81
	27	2.10	1.29	1.27	0.68	0.62	0.80
	28	2.09	1.30	1.27	0.59	0.62	0.91
	29	2.11	1.29	1.27	0.69	0.66	0.75
	30	2.12	1.30	1.27	0.60	0.61	0.87

AEC-Q200 Summary of Test Results

	Murata P/N: GCJ21BR71H105KA01
Manufacturing Location: Philippine Manufacturing Co. of Murata	Lot No: A
Date before test: 2025/3/20	Date after test: 2025/5/16

#12 - Resistance to solvents

Number of Samples: 5 Number of Lots: 1	*Test conditions A : 1 part (by volume) of isopropyl alcohol and 3 parts (by volume) of mineral spirits, 25deg C 3min immersion* *Test conditions B : terpene defluxer, 25deg C 3min immersion* *Test conditions C : 42 parts(by volume) of water and 1 part (by volume) of propylene glycol monomethylether and 1 part (by volume) of monoethanolamine, 63-70deg C 3min immersion*

Lot No	Sample	Number of failures: 0
A	1	No Failure
	2	No Failure
	3	No Failure
	4	No Failure
	5	No Failure

AEC-Q200 Summary of Test Results

	Murata P/N: GCJ21BR71H105KA01
Manufacturing Location: Philippine Manufacturing Co. of Murata	Lot No: A,B,C
Date before test: 2025/4/7	Date after test: 2025/6/4

#14 - Vibration

Test conditions : 5g's for 20min, 12 cycles each of 3 orientations, test frequency 10 - 2000Hz

No. of samples:	30	Initial readings			Final readings			
No. of lots:	3	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Change in capacitance %
Spec limits	lower	0.90		5.0E+02	0.90		5.0E+02	
	upper	1.10	5.00		1.10	5.00		
Measurement Statistics	mean	1.015	0.861	1.9E+03	0.997	0.881	2.1E+03	-1.718
	maximum	1.03	0.88	2.1E+03	1.01	0.94	2.4E+03	-1.55
	minimum	1.00	0.85	1.7E+03	0.98	0.86	1.9E+03	-1.83
	standard deviation	0.0069	0.0053	7.5E+01	0.0067	0.0157	1.0E+02	0.0525

Test Data

Lot No	Sample	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Change in capacitance %
A	1	1.02	0.85	1.9E+03	1.00	0.88	2.0E+03	-1.73
	2	1.02	0.86	1.8E+03	1.00	0.88	2.0E+03	-1.76
	3	1.01	0.86	1.8E+03	0.99	0.87	2.1E+03	-1.81
	4	1.01	0.86	1.9E+03	0.99	0.87	2.1E+03	-1.79
	5	1.02	0.86	1.9E+03	1.00	0.88	2.1E+03	-1.77
	6	1.01	0.86	1.9E+03	0.99	0.88	2.2E+03	-1.71
	7	1.01	0.86	2.0E+03	0.99	0.87	2.1E+03	-1.81
	8	1.02	0.86	1.9E+03	1.00	0.88	2.0E+03	-1.79
	9	1.01	0.87	1.8E+03	0.99	0.88	2.1E+03	-1.74
	10	1.02	0.86	1.9E+03	1.00	0.89	2.2E+03	-1.73
	11	1.01	0.86	1.9E+03	1.00	0.88	2.1E+03	-1.75
	12	1.01	0.87	1.8E+03	0.99	0.88	2.2E+03	-1.75
	13	1.01	0.86	1.9E+03	0.99	0.89	2.2E+03	-1.72
	14	1.02	0.87	1.8E+03	1.00	0.87	2.3E+03	-1.75
	15	1.02	0.86	1.9E+03	1.00	0.87	2.3E+03	-1.75
	16	1.00	0.86	1.9E+03	0.98	0.86	2.3E+03	-1.76
	17	1.01	0.86	1.9E+03	1.00	0.86	2.1E+03	-1.73
	18	1.01	0.86	1.8E+03	0.99	0.87	2.2E+03	-1.76
	19	1.02	0.86	1.8E+03	1.00	0.87	2.0E+03	-1.69
	20	1.01	0.88	1.8E+03	1.00	0.93	1.9E+03	-1.73
	21	1.02	0.86	1.7E+03	1.00	0.92	2.0E+03	-1.76
	22	1.02	0.86	1.8E+03	1.00	0.88	2.0E+03	-1.74
	23	1.01	0.86	1.8E+03	0.99	0.90	2.0E+03	-1.75
	24	1.02	0.87	1.8E+03	1.00	0.87	2.0E+03	-1.73
	25	1.02	0.86	1.7E+03	1.00	0.87	2.0E+03	-1.72
	26	1.02	0.86	1.7E+03	1.00	0.86	2.0E+03	-1.76
	27	1.01	0.87	1.8E+03	0.99	0.87	2.0E+03	-1.70
	28	1.01	0.86	1.9E+03	0.99	0.87	2.2E+03	-1.67
	29	1.02	0.87	1.9E+03	1.00	0.86	2.1E+03	-1.70
	30	1.01	0.86	1.9E+03	1.00	0.88	2.1E+03	-1.71
B	1	1.01	0.85	1.9E+03	0.99	0.87	2.1E+03	-1.76
	2	1.01	0.85	1.9E+03	0.99	0.87	2.0E+03	-1.77
	3	1.01	0.85	1.9E+03	0.99	0.87	2.1E+03	-1.78
	4	1.01	0.86	1.9E+03	0.99	0.87	2.0E+03	-1.68
	5	1.01	0.86	1.9E+03	0.99	0.90	2.1E+03	-1.66
	6	1.02	0.86	1.8E+03	1.00	0.87	2.0E+03	-1.75
	7	1.03	0.86	1.8E+03	1.01	0.88	2.1E+03	-1.79
	8	1.02	0.85	1.8E+03	1.00	0.86	2.1E+03	-1.79
	9	1.02	0.86	1.8E+03	1.00	0.89	2.0E+03	-1.73
	10	1.01	0.86	2.0E+03	0.99	0.89	2.0E+03	-1.66
	11	1.00	0.85	2.1E+03	0.99	0.88	2.2E+03	-1.72
	12	1.01	0.85	1.9E+03	0.99	0.87	2.1E+03	-1.72
	13	1.01	0.85	2.0E+03	0.99	0.89	2.2E+03	-1.72
	14	1.01	0.86	1.9E+03	0.99	0.87	2.2E+03	-1.73
	15	1.01	0.85	1.9E+03	1.00	0.89	2.3E+03	-1.68
	16	1.01	0.85	1.9E+03	0.99	0.87	2.4E+03	-1.72
	17	1.02	0.86	2.0E+03	1.00	0.88	2.1E+03	-1.71
	18	1.01	0.86	2.1E+03	0.99	0.88	2.3E+03	-1.66
	19	1.01	0.86	1.8E+03	0.99	0.88	2.0E+03	-1.67
	20	1.01	0.86	1.7E+03	1.00	0.94	2.0E+03	-1.59
	21	1.03	0.86	1.7E+03	1.01	0.88	1.9E+03	-1.71
	22	1.02	0.85	1.8E+03	1.00	0.88	2.0E+03	-1.73
	23	1.01	0.86	1.8E+03	1.00	0.87	2.0E+03	-1.72
	24	1.01	0.87	1.8E+03	1.00	0.91	2.0E+03	-1.55
	25	1.01	0.86	1.7E+03	0.99	0.88	2.0E+03	-1.68
	26	1.01	0.86	1.8E+03	1.00	0.89	2.0E+03	-1.66
	27	1.01	0.87	1.8E+03	1.00	0.89	1.9E+03	-1.69
	28	1.01	0.86	1.9E+03	0.99	0.88	2.0E+03	-1.66
	29	1.01	0.86	1.9E+03	0.99	0.89	2.1E+03	-1.57
	30	1.01	0.86	1.9E+03	0.99	0.88	2.1E+03	-1.68
C	1	1.02	0.86	1.9E+03	1.00	0.86	2.0E+03	-1.83
	2	1.02	0.86	1.9E+03	1.00	0.86	2.0E+03	-1.80
	3	1.03	0.86	1.9E+03	1.01	0.87	2.0E+03	-1.79
	4	1.03	0.86	1.9E+03	1.01	0.87	2.1E+03	-1.77
	5	1.03	0.87	1.8E+03	1.01	0.89	2.0E+03	-1.67
	6	1.01	0.86	1.8E+03	0.99	0.89	2.1E+03	-1.65
	7	1.01	0.87	1.9E+03	1.00	0.89	2.0E+03	-1.66
	8	1.01	0.86	1.9E+03	0.99	0.86	2.1E+03	-1.76
	9	1.01	0.86	2.0E+03	0.99	0.88	2.1E+03	-1.75
	10	1.02	0.87	1.9E+03	1.00	0.91	2.1E+03	-1.78
	11	1.01	0.86	1.8E+03	1.00	0.88	2.3E+03	-1.71
	12	1.03	0.86	1.8E+03	1.01	0.86	2.1E+03	-1.76
	13	1.01	0.87	1.9E+03	1.00	0.88	2.1E+03	-1.76
	14	1.00	0.86	2.0E+03	0.98	0.86	2.3E+03	-1.75
	15	1.02	0.87	2.0E+03	1.00	0.92	2.0E+03	-1.68
	16	1.03	0.86	1.9E+03	1.01	0.90	2.2E+03	-1.74
	17	1.01	0.86	1.9E+03	1.00	0.88	2.1E+03	-1.70
	18	1.01	0.86	1.9E+03	0.99	0.88	2.3E+03	-1.71
	19	1.01	0.87	1.9E+03	1.00	0.89	2.0E+03	-1.66
	20	1.02	0.86	1.8E+03	1.00	0.87	2.0E+03	-1.71
	21	1.02	0.86	1.8E+03	1.00	0.87	2.0E+03	-1.71
	22	1.02	0.86	1.8E+03	1.00	0.93	2.1E+03	-1.66
	23	1.02	0.86	1.9E+03	1.00	0.87	2.0E+03	-1.73
	24	1.00	0.86	1.8E+03	0.98	0.89	2.1E+03	-1.66
	25	1.01	0.86	1.9E+03	0.99	0.87	2.1E+03	-1.73
	26	1.02	0.87	1.8E+03	1.00	0.90	2.1E+03	-1.64
	27	1.02	0.86	1.8E+03	1.00	0.89	2.0E+03	-1.73
	28	1.02	0.87	1.8E+03	1.01	0.88	1.9E+03	-1.72
	29	1.03	0.86	1.8E+03	1.01	0.88	2.0E+03	-1.62
	30	1.03	0.86	1.9E+03	1.01	0.90	2.0E+03	-1.64

AEC-Q200 Summary of Test Results

	Murata P/N: GCJ21BR71H105KA01
Manufacturing Location: Philippine Manufacturing Co. of Murata	Lot No: A
Date before test: 2025/6/23	Date after test: 2025/6/29

#21 - Board Flex

Test conditions : Bend board at 5mm for 60sec
pass/fail criteria : cap change within +/-10%

Test Data

Number of Samples: 30 Number of Lots: 1		Number of failures: 0
Lot No	Sample	Result (pass/fail)
A	1	pass
	2	pass
	3	pass
	4	pass
	5	pass
	6	pass
	7	pass
	8	pass
	9	pass
	10	pass
	11	pass
	12	pass
	13	pass
	14	pass
	15	pass
	16	pass
	17	pass
	18	pass
	19	pass
	20	pass
	21	pass
	22	pass
	23	pass
	24	pass
	25	pass
	26	pass
	27	pass
	28	pass
	29	pass
	30	pass

AEC-Q200 Summary of Test Results

	Murata P/N: GCJ21BR71H105KA01
Manufacturing Location: Philippine Manufacturing Co. of Murata	Lot No: A
Date before test: 2025/3/20	Date after test: 2025/5/16

#15 - Resistance to Soldering Heat

Test conditions : Soldering , 260deg C,10sec, immersion

Number of Samples: 30 Number of Lots: 1	Number of failures: 0

Lot No	Sample	Result
A	1	No failure
	2	No failure
	3	No failure
	4	No failure
	5	No failure
	6	No failure
	7	No failure
	8	No failure
	9	No failure
	10	No failure
	11	No failure
	12	No failure
	13	No failure
	14	No failure
	15	No failure
	16	No failure
	17	No failure
	18	No failure
	19	No failure
	20	No failure
	21	No failure
	22	No failure
	23	No failure
	24	No failure
	25	No failure
	26	No failure
	27	No failure
	28	No failure
	29	No failure
	30	No failure

AEC-Q200 Summary of Test Results

	Murata P/N: GCJ21BR71H105KA01
Manufacturing Location: Philippine Manufacturing Co. of Murata	Lot No: A
Date before test: 2025/3/20	

#18 - Solderability

Test conditions : (a) Preheat at 155℃ for 4h. After preheating, immerse the capacitor in a solution of rosin ethanol 25(mass)%. Immerse in Sn-3.0Ag-0.5Cu solder solution at 245+/-5℃ for 5+0/-0.5s.

Number of Samples: 15 Number of Lots: 1		Number of failures: 0
Test No.	Sample	Result (pass/fail)
A	1	pass
	2	pass
	3	pass
	4	pass
	5	pass
	6	pass
	7	pass
	8	pass
	9	pass
	10	pass
	11	pass
	12	pass
	13	pass
	14	pass
	15	pass

AEC-Q200 Summary of Test Results

	Murata P/N: GCJ21BR71H105KA01
Manufacturing Location: Philippine Manufacturing Co. of Murata	Lot No: A,B,C
Date before test: 2025/3/20	Date after test: 2025/5/16

#19 - Electrical Characterization

		Test conditions :1.0+/-0.1kHz, 1.0+/-0.2Vrms(Electrical Characterization)				*Test conditions :1.0+/-0.1kHz, 0.1Vrms(Tempareture Characteristics)*				
Number of Samples: 30 Number of Lots: 3		Electrical Characterization				Temperature characteristic at 25C	Temperature characteristic at -55C		Temperature characteristic at 125C	
		Capacitance uF	Dissipation Factor %	IR 25C Mohm	IR 125C Mohm	Capacitance uF	Capacitance uF	Change in capacitance %	Capacitance uF	Change in capacitance %
Spec limits	lower	0.90		5.0E+02	1.0E+01			-15.00		-15.00
	upper	1.10	5.00					15.00		15.00
Measurement Statistics	mean	0.974	0.391	2.0E+03	4.0E+01	0.974	0.932	-4.346	0.854	-12.323
	maximum	0.99	1.02	2.1E+03	4.7E+01	0.99	0.94	-3.75	0.87	-11.14
	minimum	0.96	0.16	1.9E+03	3.5E+01	0.96	0.92	-4.67	0.84	-12.97
	standard dev.	0.0055	0.1161	2.8E+01	3.2E+00	0.0055	0.0053	0.2626	0.0058	0.4493
Lot No	Sample	Capacitance uF	Dissipation Factor %	IR 25C Mohm	IR 125C Mohm	Capacitance uF	Capacitance uF	Change in capacitance %	Capacitance uF	Change in capacitance %
A	1	0.98	0.31	2.0E+03	3.9E+01	0.98	0.94	-3.75	0.87	-11.50
	2	0.98	0.36	2.0E+03	3.9E+01	0.98	0.94	-4.03	0.86	-11.73
	3	0.97	0.29	2.0E+03	4.1E+01	0.97	0.93	-3.98	0.85	-11.86
	4	0.98	0.36	2.0E+03	4.0E+01	0.98	0.94	-3.91	0.86	-12.22
	5	0.96	0.34	2.0E+03	4.2E+01	0.96	0.92	-3.99	0.85	-12.17
	6	0.97	0.37	2.0E+03	4.2E+01	0.97	0.93	-3.98	0.85	-12.35
	7	0.97	0.34	2.0E+03	4.2E+01	0.97	0.93	-3.98	0.85	-12.38
	8	0.97	0.32	2.0E+03	4.2E+01	0.97	0.93	-4.04	0.85	-12.29
	9	0.97	0.34	2.0E+03	4.3E+01	0.97	0.93	-4.04	0.85	-12.45
	10	0.97	0.35	2.0E+03	4.3E+01	0.97	0.93	-4.04	0.85	-12.41
	11	0.97	0.34	2.0E+03	4.2E+01	0.97	0.93	-4.08	0.85	-12.41
	12	0.98	0.32	2.0E+03	4.1E+01	0.98	0.94	-4.02	0.86	-12.47
	13	0.97	0.29	2.0E+03	4.2E+01	0.97	0.93	-4.07	0.85	-12.32
	14	0.97	0.29	2.0E+03	4.2E+01	0.97	0.93	-4.09	0.85	-12.31
	15	0.98	0.19	2.0E+03	4.1E+01	0.98	0.94	-3.94	0.86	-12.64
	16	0.97	0.42	2.1E+03	4.3E+01	0.97	0.93	-3.99	0.85	-12.59
	17	0.98	0.36	2.0E+03	4.1E+01	0.98	0.94	-3.99	0.86	-12.58
	18	0.97	0.35	2.0E+03	3.9E+01	0.97	0.93	-3.97	0.85	-12.52
	19	0.98	0.36	2.0E+03	3.7E+01	0.98	0.94	-4.02	0.85	-12.59
	20	0.98	0.37	2.0E+03	3.8E+01	0.98	0.94	-3.98	0.85	-12.51
	21	0.97	0.39	2.0E+03	3.9E+01	0.97	0.93	-4.08	0.85	-12.36
	22	0.97	0.35	2.0E+03	4.0E+01	0.97	0.93	-4.13	0.85	-12.38
	23	0.97	0.38	2.0E+03	4.0E+01	0.97	0.93	-4.08	0.85	-12.43
	24	0.97	0.34	2.0E+03	4.0E+01	0.97	0.93	-4.17	0.86	-12.21
	25	0.97	0.39	2.0E+03	4.2E+01	0.97	0.93	-4.26	0.85	-12.39
	26	0.97	0.37	2.0E+03	4.3E+01	0.97	0.93	-4.02	0.85	-12.55
	27	0.97	0.38	2.0E+03	4.3E+01	0.97	0.93	-4.15	0.85	-12.21
	28	0.97	0.36	2.0E+03	4.4E+01	0.97	0.93	-4.15	0.86	-11.95
	29	0.97	0.38	2.0E+03	4.3E+01	0.97	0.93	-4.17	0.86	-11.89
	30	0.97	0.36	2.0E+03	4.3E+01	0.97	0.93	-4.16	0.86	-11.93
B	1	0.97	0.39	2.0E+03	3.5E+01	0.97	0.93	-4.42	0.86	-11.59
	2	0.98	0.39	2.0E+03	3.8E+01	0.98	0.94	-4.50	0.86	-12.05
	3	0.98	0.39	2.0E+03	3.7E+01	0.98	0.93	-4.50	0.86	-12.22
	4	0.97	0.34	1.9E+03	3.5E+01	0.97	0.93	-4.54	0.85	-12.47
	5	0.97	0.32	2.0E+03	3.7E+01	0.97	0.92	-4.61	0.85	-12.33
	6	0.97	0.38	2.0E+03	3.7E+01	0.97	0.93	-4.55	0.85	-12.59
	7	0.98	0.41	2.0E+03	3.7E+01	0.98	0.93	-4.56	0.86	-12.54
	8	0.97	0.39	1.9E+03	3.7E+01	0.97	0.93	-4.61	0.85	-12.68
	9	0.97	0.39	2.0E+03	3.8E+01	0.97	0.93	-4.53	0.85	-12.75
	10	0.97	0.18	2.0E+03	3.7E+01	0.97	0.92	-4.49	0.84	-12.81
	11	0.98	0.39	2.0E+03	3.9E+01	0.98	0.94	-4.52	0.86	-12.92
	12	0.98	0.38	2.0E+03	3.8E+01	0.98	0.93	-4.57	0.85	-12.78
	13	0.98	0.40	2.0E+03	3.8E+01	0.98	0.93	-4.53	0.85	-12.90
	14	0.98	0.36	2.0E+03	3.8E+01	0.98	0.94	-4.58	0.86	-12.84
	15	0.98	0.42	2.0E+03	3.7E+01	0.98	0.93	-4.60	0.85	-12.73
	16	0.97	0.42	2.0E+03	3.7E+01	0.97	0.92	-4.66	0.85	-12.74
	17	0.98	0.40	2.0E+03	3.6E+01	0.98	0.94	-4.53	0.85	-12.97
	18	0.98	0.40	2.0E+03	3.6E+01	0.98	0.93	-4.58	0.85	-12.88
	19	0.98	0.38	2.0E+03	3.5E+01	0.98	0.93	-4.62	0.85	-12.83
	20	0.98	0.40	2.0E+03	3.5E+01	0.98	0.93	-4.53	0.85	-12.88
	21	0.99	0.40	2.0E+03	3.6E+01	0.99	0.94	-4.55	0.86	-12.87
	22	0.97	0.34	2.0E+03	3.7E+01	0.97	0.93	-4.67	0.85	-12.80
	23	0.97	0.41	2.0E+03	3.6E+01	0.97	0.92	-4.66	0.85	-12.60
	24	0.97	0.30	2.0E+03	3.7E+01	0.97	0.93	-4.59	0.85	-12.56
	25	0.97	0.39	2.0E+03	3.7E+01	0.97	0.93	-4.60	0.85	-12.60
	26	0.98	0.41	2.0E+03	3.7E+01	0.98	0.93	-4.59	0.86	-12.70
	27	0.98	0.40	2.0E+03	3.8E+01	0.98	0.94	-4.55	0.86	-12.57
	28	0.98	0.39	2.0E+03	3.8E+01	0.98	0.94	-4.56	0.86	-12.63
	29	0.98	0.40	2.0E+03	3.8E+01	0.98	0.94	-4.59	0.86	-12.51
	30	0.97	0.40	2.0E+03	3.8E+01	0.97	0.92	-4.52	0.85	-12.41
C	1	0.98	0.34	2.0E+03	4.2E+01	0.98	0.93	-4.59	0.86	-11.85
	2	0.98	0.22	2.0E+03	4.3E+01	0.98	0.94	-4.64	0.86	-12.31
	3	0.98	0.18	2.0E+03	4.3E+01	0.98	0.94	-4.63	0.86	-12.47
	4	0.97	0.40	1.9E+03	4.1E+01	0.97	0.93	-4.58	0.85	-12.54
	5	0.98	0.44	2.0E+03	4.4E+01	0.98	0.93	-4.57	0.86	-12.64
	6	0.98	0.43	2.0E+03	4.3E+01	0.98	0.93	-4.63	0.86	-12.42
	7	0.97	0.42	2.0E+03	4.3E+01	0.97	0.93	-4.65	0.85	-12.56
	8	0.98	0.16	2.0E+03	4.3E+01	0.98	0.93	-4.63	0.85	-12.64
	9	0.97	0.39	2.0E+03	4.2E+01	0.97	0.92	-4.66	0.85	-12.47
	10	0.98	0.58	2.0E+03	4.2E+01	0.98	0.93	-4.58	0.85	-12.54
	11	0.97	0.42	2.0E+03	4.1E+01	0.97	0.92	-4.64	0.85	-12.43
	12	0.98	0.42	2.0E+03	4.1E+01	0.98	0.93	-4.63	0.86	-12.60
	13	0.96	0.45	2.0E+03	4.1E+01	0.96	0.92	-4.64	0.85	-12.32
	14	0.97	0.33	2.0E+03	4.0E+01	0.97	0.93	-4.54	0.85	-12.58
	15	0.98	0.56	2.0E+03	4.0E+01	0.98	0.93	-4.51	0.85	-12.52
	16	0.97	0.60	2.1E+03	4.0E+01	0.97	0.92	-4.50	0.85	-12.40
	17	0.99	0.38	2.0E+03	3.8E+01	0.99	0.94	-4.42	0.86	-12.46
	18	0.97	1.02	2.0E+03	3.7E+01	0.97	0.93	-4.53	0.85	-12.08
	19	0.97	0.35	2.0E+03	4.5E+01	0.97	0.92	-4.47	0.85	-12.06
	20	0.98	0.38	2.0E+03	4.5E+01	0.98	0.94	-4.40	0.86	-12.22
	21	0.97	0.40	2.0E+03	4.5E+01	0.97	0.93	-4.25	0.86	-11.73
	22	0.97	0.40	2.0E+03	4.6E+01	0.97	0.93	-4.20	0.86	-11.50
	23	0.98	0.45	2.0E+03	4.7E+01	0.98	0.93	-4.21	0.86	-11.48
	24	0.98	0.65	2.0E+03	4.6E+01	0.98	0.94	-4.20	0.87	-11.33
	25	0.98	0.57	2.0E+03	4.7E+01	0.98	0.94	-4.25	0.87	-11.50
	26	0.97	0.39	2.1E+03	4.7E+01	0.97	0.93	-4.17	0.86	-11.15
	27	0.96	0.45	2.0E+03	4.5E+01	0.96	0.92	-4.14	0.85	-11.14
	28	0.98	0.28	2.0E+03	4.6E+01	0.98	0.94	-4.06	0.87	-11.17
	29	0.97	0.41	2.0E+03	4.5E+01	0.97	0.93	-4.02	0.86	-11.25
	30	0.97	0.88	2.0E+03	4.3E+01	0.97	0.94	-4.03	0.86	-11.40

AEC-Q200 Summary of Test Results

	Murata P/N: GCJ21BR71H105KA01
Manufacturing Location: Philippine Manufacturing Co. of Murata	Lot No: A
Date before test: 2025/3/24	Date after test: 2025/4/6

#22 - Terminal Strength

Test conditions : Force of 18N for 60sec

Number of Samples: 30 Number of Lots: 1	Number of failures: 0

Lot No	Sample	Result (pass/fail)
A	1	pass
	2	pass
	3	pass
	4	pass
	5	pass
	6	pass
	7	pass
	8	pass
	9	pass
	10	pass
	11	pass
	12	pass
	13	pass
	14	pass
	15	pass
	16	pass
	17	pass
	18	pass
	19	pass
	20	pass
	21	pass
	22	pass
	23	pass
	24	pass
	25	pass
	26	pass
	27	pass
	28	pass
	29	pass
	30	pass

AEC-Q200 Summary of Test Results

	Murata P/N: GCJ21BR71H105KA01
Manufacturing Location: Philippine Manufacturing Co. of Murata	Lot No: A
Date before test: 2025/3/25	Date after test: 2025/3/25

#23 - Beam Load

Test conditions : Apply a force until the part brakes
Pass/fail criteria : More than 20N

Number of Samples: 30 Number of Lots: 1		Number of failures: 0
Lot No	Sample	Result (pass/fail)
A	1	pass
	2	pass
	3	pass
	4	pass
	5	pass
	6	pass
	7	pass
	8	pass
	9	pass
	10	pass
	11	pass
	12	pass
	13	pass
	14	pass
	15	pass
	16	pass
	17	pass
	18	pass
	19	pass
	20	pass
	21	pass
	22	pass
	23	pass
	24	pass
	25	pass
	26	pass
	27	pass
	28	pass
	29	pass
	30	pass

Cpk data

		Murata P/N: GCJ21BR71H105KA01	
Manufacturing Location: Philippine Manufacturing Co. of Murata		Lot No: A	
Content	L (mm)	W (mm)	T (mm)
No.1	2.10	1.30	1.30
2	2.11	1.30	1.27
3	2.11	1.30	1.28
4	2.10	1.30	1.27
5	2.09	1.30	1.28
6	2.09	1.31	1.27
7	2.11	1.30	1.27
8	2.09	1.30	1.27
9	2.11	1.30	1.27
10	2.09	1.31	1.28
11	2.09	1.30	1.27
12	2.09	1.31	1.28
13	2.09	1.30	1.27
14	2.09	1.31	1.28
15	2.09	1.29	1.29
16	2.10	1.29	1.27
17	2.09	1.30	1.28
18	2.09	1.29	1.27
19	2.10	1.30	1.27
20	2.10	1.30	1.27
21	2.09	1.30	1.28
22	2.11	1.30	1.28
23	2.09	1.31	1.28
24	2.09	1.30	1.28
25	2.09	1.31	1.28
26	2.10	1.31	1.27
27	2.10	1.29	1.27
28	2.09	1.30	1.27
29	2.11	1.29	1.27
30	2.12	1.30	1.27
31	2.11	1.30	1.27
32	2.09	1.30	1.27
33	2.10	1.30	1.27
34	2.10	1.30	1.27
35	2.10	1.31	1.28
36	2.11	1.30	1.28
37	2.10	1.30	1.28
38	2.09	1.30	1.28
39	2.12	1.30	1.27
40	2.11	1.30	1.27
41	2.09	1.31	1.27
42	2.09	1.30	1.28
43	2.10	1.31	1.28
44	2.11	1.30	1.27
45	2.11	1.31	1.27
46	2.11	1.30	1.27
47	2.09	1.30	1.27
48	2.09	1.31	1.28
49	2.10	1.30	1.27
50	2.09	1.30	1.28
51	2.10	1.30	1.27
52	2.09	1.30	1.27
53	2.10	1.31	1.28
54	2.10	1.30	1.27
55	2.11	1.30	1.28
56	2.11	1.30	1.27
57	2.09	1.30	1.28
58	2.10	1.30	1.28
59	2.10	1.31	1.28
60	2.11	1.30	1.27
61	2.11	1.30	1.27
62	2.11	1.30	1.27
63	2.11	1.30	1.28
64	2.09	1.30	1.28
65	2.11	1.30	1.27
66	2.09	1.30	1.27
67	2.11	1.30	1.27
68	2.08	1.30	1.27
69	2.09	1.30	1.27
70	2.11	1.30	1.27
71	2.09	1.30	1.27
72	2.09	1.30	1.27
73	2.11	1.30	1.27
74	2.11	1.30	1.28
75	2.11	1.31	1.27
76	2.10	1.31	1.28
77	2.10	1.30	1.28
78	2.11	1.30	1.27
79	2.10	1.30	1.27
80	2.10	1.30	1.27
81	2.11	1.30	1.28
82	2.09	1.29	1.27
83	2.10	1.29	1.27
84	2.11	1.30	1.27
85	2.09	1.29	1.27
86	2.08	1.30	1.27
87	2.10	1.29	1.26
88	2.09	1.30	1.27
89	2.09	1.29	1.26
90	2.11	1.30	1.27
91	2.09	1.31	1.28
92	2.11	1.30	1.27
93	2.10	1.30	1.27
94	2.11	1.30	1.27
95	2.10	1.31	1.27
96	2.10	1.31	1.28
97	2.09	1.30	1.28
98	2.09	1.31	1.28
99	2.09	1.31	1.28
100	2.09	1.30	1.27
Average	2.098	1.301	1.274
Std dev	0.0088	0.0046	0.0050
MAX	2.12	1.31	1.30
MIN	2.08	1.29	1.26
Cpk	7.62	10.74	11.64
SL	1.70	1.05	1.05
SU	2.30	1.45	1.45

AEC Q200 Summary of Test Results

Supplier: **Murata**

Submission Date: **July / 2025**

Part Name:

GCJ32ER71E106KA18

Series description:

GCJ / 1210 / X7R Series

Murata Manufacturing Co., Ltd.

INNOVATOR IN ELECTRONICS

Murata P/N: GCJ32ER71E106KA18

Part Series GCJ / 1210 / X7R Series

Operating Temperature: -55℃ ~ +125℃

Test Item	Test Conditions	No of Lots	Qty per Lot	No of Failure
#3 - High Temperature Exposure	1000hr , 150deg C	3	77	0
#4 - Temperature Cycling	1000cycles , -55deg C to 125deg C	3	77	0
#5 - Destructive Physical Analysis		1	10	0
#6 - Moisture Resistance	10cycles(1cycle : 24hr) , 25deg C / 80% RH to 65deg C / 98% RH	3	77	0
#7 - Humidity Bias (I)	1000hr , 85deg C / 85% RH , 1WV	3	77	0
#7 - Humidity Bias (II)	1000hr , 85deg C / 85% RH , 1.3V	3	77	0
#8 - High Temperature Operating Life	1000hr ,125deg C , 2WV	3	77	0
#9 - External Visual		all qualification parts		0
#10 - Physical Dimensions		1	30	0
#12 - Resistance to solvents	Test conditions A : 1 part (by volume) of isopropyl alcohol and 3 parts (by volume) of mineral spirits, 25deg C 3min immersion Test conditions B : terpene defluxer, 25deg C 3min immersion Test conditions C : 42 parts(by volume) of water and 1 part (by volume) of propylene glycol monomethylether and 1 part (by volume) of monoethanolamine, 63-70deg C 3min immersion	1	5	0
#13 - Mechanical Shock	Shock pulse : 1500g's, 0.5ms, 4.7m/s, 3 times each of 6 orientations	3	30	0
#14 - Vibration	5g's for 20min, 12 cycles each of 3 orientations, test frequency 10 - 2000Hz	3	30	0
#15 - Resistance to Soldering Heat	Soldering , 260deg C,10sec, immersion	1	30	0
#18 - Solderability	(a) Preheat at 155℃ for 4h. After preheating, immerse the capacitor in a solution of rosin ethanol 25(mass)%. Immerse in Sn-3.0Ag-0.5Cu solder solution at 245+/-5℃ for 5+0/-0.5s.	1	15	0
#19 - Electrical Characterization	1.0+/-0.1kHz, 1.0+/-0.2Vrms (Electrical Characterization) 1.0+/-0.1kHz, 0.01Vrms (Tempareture Characteristics)	3	30	0
#21 - Board Flex	Bend board at 5mm for 60sec pass/fail criteria : cap change within +/-10%	1	30	0
#22 - Terminal Strength	Force of 18N for 60sec	1	30	0
#23 - Beam Load	Apply a force until the part brakes Pass/fail criteria : More than 54.5N	1	30	0

AEC-Q200 Summary of Test Results

	Murata P/N: GCJ32ER71E106KA18
Manufacturing Location: Philippine Manufacturing Co. of Murata	Lot No: A,B,C
Date before test: 2025/3/14	Date after test: 2025/5/11

#3 - High Temperature Exposure

Test conditions : 1000hr , 150deg C

No. of samples:	77	Initial readings			Final readings			
No. of lots:	3	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Change in capacitance %
Spec limits	lower	9.00		5.0E+01			5.0E+01	-12.50
	upper	11.00	5.00			5.00		12.50
Measurement Statistics	mean	10.550	2.286	2.4E+02	10.465	2.315	2.5E+02	-0.805
	maximum	10.97	2.60	2.5E+02	10.88	2.43	2.6E+02	-0.61
	minimum	10.12	2.17	2.3E+02	10.05	2.21	2.4E+02	-0.97
	standard deviation	0.2068	0.0554	4.7E+00	0.2000	0.0501	4.1E+00	0.0728

Test Data

Lot No	Sample	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Change in capacitance %
A	1	10.97	2.33	2.3E+02	10.88	2.36	2.4E+02	-0.81
	2	10.79	2.31	2.4E+02	10.70	2.35	2.4E+02	-0.85
	3	10.56	2.28	2.4E+02	10.47	2.32	2.5E+02	-0.85
	4	10.80	2.31	2.4E+02	10.71	2.34	2.4E+02	-0.86
	5	10.87	2.32	2.4E+02	10.78	2.36	2.4E+02	-0.86
	6	10.72	2.32	2.4E+02	10.63	2.36	2.5E+02	-0.84
	7	10.70	2.31	2.4E+02	10.61	2.34	2.5E+02	-0.86
	8	10.76	2.30	2.4E+02	10.66	2.33	2.5E+02	-0.86
	9	10.55	2.25	2.4E+02	10.46	2.29	2.5E+02	-0.87
	10	10.82	2.32	2.3E+02	10.72	2.34	2.4E+02	-0.92
	11	10.75	2.31	2.4E+02	10.65	2.33	2.4E+02	-0.90
	12	10.66	2.31	2.4E+02	10.56	2.34	2.5E+02	-0.92
	13	10.81	2.31	2.3E+02	10.71	2.33	2.4E+02	-0.92
	14	10.85	2.33	2.4E+02	10.75	2.38	2.4E+02	-0.92
	15	10.78	2.33	2.4E+02	10.68	2.40	2.5E+02	-0.92
	16	10.84	2.32	2.3E+02	10.74	2.35	2.4E+02	-0.90
	17	10.81	2.33	2.4E+02	10.71	2.37	2.4E+02	-0.91
	18	10.63	2.28	2.4E+02	10.53	2.33	2.5E+02	-0.89
	19	10.79	2.35	2.4E+02	10.70	2.39	2.5E+02	-0.80
	20	10.77	2.35	2.4E+02	10.68	2.37	2.5E+02	-0.84
	21	10.69	2.33	2.4E+02	10.60	2.38	2.5E+02	-0.81
	22	10.90	2.37	2.4E+02	10.80	2.42	2.5E+02	-0.85
	23	10.73	2.37	2.4E+02	10.65	2.37	2.4E+02	-0.83
	24	10.84	2.35	2.5E+02	10.75	2.38	2.5E+02	-0.84
	25	10.81	2.35	2.3E+02	10.72	2.35	2.4E+02	-0.85
	26	10.88	2.36	2.4E+02	10.79	2.38	2.4E+02	-0.86
	27	10.86	2.36	2.4E+02	10.77	2.38	2.4E+02	-0.87
	28	10.80	2.40	2.5E+02	10.71	2.40	2.5E+02	-0.85
	29	10.64	2.29	2.4E+02	10.55	2.31	2.4E+02	-0.86
	30	10.84	2.37	2.5E+02	10.74	2.39	2.5E+02	-0.88
	31	10.73	2.34	2.4E+02	10.64	2.35	2.4E+02	-0.83
	32	10.71	2.33	2.4E+02	10.62	2.34	2.4E+02	-0.89
	33	10.84	2.34	2.3E+02	10.74	2.36	2.4E+02	-0.90
	34	10.86	2.37	2.4E+02	10.76	2.39	2.5E+02	-0.88
	35	10.74	2.34	2.4E+02	10.64	2.37	2.4E+02	-0.93
	36	10.76	2.34	2.4E+02	10.66	2.37	2.4E+02	-0.97
	37	10.92	2.33	2.3E+02	10.82	2.37	2.4E+02	-0.92
	38	10.72	2.31	2.4E+02	10.62	2.34	2.4E+02	-0.90
	39	10.77	2.34	2.4E+02	10.67	2.37	2.5E+02	-0.89
	40	10.84	2.31	2.3E+02	10.74	2.35	2.4E+02	-0.89
	41	10.69	2.31	2.4E+02	10.59	2.35	2.5E+02	-0.89
	42	10.96	2.35	2.4E+02	10.86	2.38	2.5E+02	-0.92
	43	10.77	2.33	2.4E+02	10.67	2.36	2.5E+02	-0.88
	44	10.76	2.34	2.4E+02	10.67	2.36	2.5E+02	-0.90
	45	10.78	2.34	2.4E+02	10.69	2.36	2.4E+02	-0.90
	46	10.74	2.33	2.4E+02	10.64	2.36	2.5E+02	-0.89
	47	10.88	2.35	2.4E+02	10.78	2.38	2.4E+02	-0.89
	48	10.77	2.35	2.4E+02	10.68	2.37	2.5E+02	-0.89
	49	10.77	2.35	2.4E+02	10.68	2.38	2.5E+02	-0.87
	50	10.81	2.37	2.4E+02	10.71	2.40	2.4E+02	-0.86
	51	10.72	2.60	2.4E+02	10.63	2.43	2.4E+02	-0.88
	52	10.75	2.34	2.4E+02	10.66	2.42	2.4E+02	-0.84
	53	10.79	2.32	2.4E+02	10.71	2.35	2.4E+02	-0.80
	54	10.95	2.37	2.3E+02	10.85	2.40	2.4E+02	-0.91
	55	10.79	2.32	2.3E+02	10.69	2.35	2.4E+02	-0.94
	56	10.75	2.35	2.5E+02	10.65	2.36	2.5E+02	-0.90
	57	10.84	2.33	2.4E+02	10.75	2.35	2.4E+02	-0.89
	58	10.73	2.34	2.4E+02	10.63	2.36	2.5E+02	-0.88
	59	10.71	2.33	2.5E+02	10.61	2.35	2.5E+02	-0.88
	60	10.83	2.38	2.4E+02	10.73	2.40	2.4E+02	-0.88
	61	10.73	2.36	2.4E+02	10.63	2.38	2.4E+02	-0.90
	62	10.69	2.33	2.4E+02	10.60	2.36	2.5E+02	-0.88
	63	10.82	2.38	2.4E+02	10.72	2.40	2.5E+02	-0.91
	64	10.80	2.39	2.4E+02	10.70	2.40	2.4E+02	-0.92
	65	10.55	2.29	2.4E+02	10.46	2.31	2.4E+02	-0.87
	66	10.67	2.32	2.4E+02	10.57	2.34	2.5E+02	-0.87
	67	10.66	2.35	2.4E+02	10.56	2.35	2.4E+02	-0.86
	68	10.76	2.34	2.4E+02	10.67	2.35	2.4E+02	-0.86
	69	10.74	2.35	2.4E+02	10.65	2.38	2.4E+02	-0.84
	70	10.65	2.36	2.4E+02	10.56	2.36	2.4E+02	-0.84
	71	10.72	2.37	2.4E+02	10.63	2.41	2.4E+02	-0.84
	72	10.77	2.34	2.4E+02	10.68	2.39	2.4E+02	-0.85
	73	10.89	2.31	2.4E+02	10.79	2.37	2.4E+02	-0.89
	74	10.93	2.33	2.4E+02	10.84	2.41	2.4E+02	-0.88
	75	10.76	2.31	2.3E+02	10.67	2.35	2.4E+02	-0.82
	76	10.75	2.35	2.4E+02	10.66	2.42	2.5E+02	-0.86
	77	10.64	2.29	2.4E+02	10.55	2.33	2.4E+02	-0.83

AEC-Q200 Summary of Test Results

	Murata P/N: GCJ32ER71E106KA18
Manufacturing Location: Philippine Manufacturing Co. of Murata	Lot No: A,B,C
Date before test: 2025/3/14	Date after test: 2025/5/11

#3 - High Temperature Exposure

Test conditions : 1000hr , 150deg C

	1	10.50	2.25	2.4E+02	10.42	2.29	2.4E+02	-0.74
	2	10.46	2.29	2.5E+02	10.38	2.32	2.6E+02	-0.78
	3	10.56	2.28	2.4E+02	10.48	2.30	2.5E+02	-0.76
	4	10.52	2.31	2.5E+02	10.44	2.31	2.6E+02	-0.78
	5	10.30	2.23	2.4E+02	10.23	2.26	2.5E+02	-0.77
	6	10.58	2.28	2.4E+02	10.51	2.30	2.4E+02	-0.75
	7	10.57	2.32	2.5E+02	10.49	2.34	2.5E+02	-0.78
	8	10.55	2.32	2.4E+02	10.47	2.34	2.5E+02	-0.78
	9	10.69	2.35	2.5E+02	10.61	2.36	2.5E+02	-0.79
	10	10.58	2.31	2.5E+02	10.50	2.32	2.6E+02	-0.84
	11	10.76	2.35	2.4E+02	10.67	2.34	2.5E+02	-0.85
	12	10.50	2.30	2.4E+02	10.42	2.31	2.5E+02	-0.84
	13	10.35	2.29	2.5E+02	10.26	2.30	2.5E+02	-0.83
	14	10.57	2.30	2.4E+02	10.48	2.31	2.5E+02	-0.84
	15	10.37	2.25	2.4E+02	10.28	2.28	2.5E+02	-0.82
	16	10.36	2.25	2.5E+02	10.27	2.27	2.5E+02	-0.82
	17	10.47	2.29	2.5E+02	10.39	2.31	2.5E+02	-0.85
	18	10.53	2.30	2.4E+02	10.43	2.32	2.5E+02	-0.92
	19	10.58	2.32	2.4E+02	10.50	2.34	2.5E+02	-0.77
	20	10.65	2.27	2.4E+02	10.57	2.29	2.4E+02	-0.73
	21	10.86	2.34	2.4E+02	10.78	2.35	2.4E+02	-0.76
	22	10.55	2.31	2.5E+02	10.48	2.32	2.5E+02	-0.73
	23	10.36	2.25	2.5E+02	10.29	2.27	2.5E+02	-0.71
	24	10.47	2.28	2.5E+02	10.40	2.30	2.5E+02	-0.74
	25	10.59	2.30	2.4E+02	10.51	2.31	2.4E+02	-0.74
	26	10.57	2.29	2.4E+02	10.49	2.30	2.5E+02	-0.74
	27	10.53	2.26	2.4E+02	10.45	2.27	2.4E+02	-0.77
	28	10.56	2.33	2.5E+02	10.47	2.33	2.5E+02	-0.81
	29	10.62	2.30	2.5E+02	10.54	2.31	2.5E+02	-0.80
	30	10.49	2.31	2.5E+02	10.41	2.32	2.5E+02	-0.80
	31	10.71	2.34	2.4E+02	10.62	2.36	2.5E+02	-0.83
	32	10.13	2.20	2.5E+02	10.05	2.22	2.5E+02	-0.80
	33	10.63	2.34	2.4E+02	10.54	2.36	2.5E+02	-0.83
	34	10.49	2.27	2.4E+02	10.40	2.28	2.4E+02	-0.83
	35	10.45	2.28	2.4E+02	10.36	2.29	2.4E+02	-0.87
	36	10.63	2.35	2.5E+02	10.53	2.35	2.6E+02	-0.94
	37	10.45	2.26	2.4E+02	10.37	2.29	2.5E+02	-0.84
	38	10.29	2.22	2.4E+02	10.21	2.26	2.5E+02	-0.79
B	39	10.67	2.33	2.4E+02	10.58	2.36	2.5E+02	-0.82
	40	10.63	2.29	2.3E+02	10.54	2.32	2.4E+02	-0.85
	41	10.58	2.31	2.4E+02	10.49	2.35	2.5E+02	-0.83
	42	10.53	2.29	2.4E+02	10.44	2.33	2.5E+02	-0.84
	43	10.36	2.25	2.4E+02	10.27	2.28	2.5E+02	-0.85
	44	10.55	2.27	2.5E+02	10.46	2.30	2.5E+02	-0.86
	45	10.32	2.25	2.4E+02	10.24	2.27	2.5E+02	-0.84
	46	10.67	2.31	2.4E+02	10.58	2.33	2.4E+02	-0.85
	47	10.56	2.31	2.4E+02	10.48	2.33	2.5E+02	-0.79
	48	10.62	2.27	2.4E+02	10.54	2.29	2.4E+02	-0.83
	49	10.68	2.32	2.5E+02	10.59	2.36	2.5E+02	-0.84
	50	10.71	2.30	2.4E+02	10.62	2.33	2.4E+02	-0.82
	51	10.81	2.34	2.3E+02	10.73	2.37	2.4E+02	-0.77
	52	10.33	2.22	2.3E+02	10.25	2.26	2.4E+02	-0.72
	53	10.54	2.30	2.4E+02	10.46	2.35	2.5E+02	-0.76
	54	10.76	2.31	2.4E+02	10.67	2.34	2.4E+02	-0.77
	55	10.80	2.31	2.4E+02	10.71	2.35	2.4E+02	-0.80
	56	10.48	2.29	2.4E+02	10.40	2.33	2.5E+02	-0.77
	57	10.67	2.33	2.4E+02	10.59	2.37	2.5E+02	-0.78
	58	10.64	2.32	2.5E+02	10.56	2.36	2.5E+02	-0.77
	59	10.44	2.26	2.5E+02	10.36	2.31	2.5E+02	-0.78
	60	10.61	2.28	2.4E+02	10.52	2.32	2.5E+02	-0.80
	61	10.64	2.31	2.5E+02	10.55	2.34	2.5E+02	-0.83
	62	10.50	2.27	2.4E+02	10.42	2.30	2.5E+02	-0.76
	63	10.37	2.26	2.5E+02	10.28	2.28	2.6E+02	-0.80
	64	10.60	2.28	2.5E+02	10.51	2.31	2.5E+02	-0.78
	65	10.54	2.31	2.5E+02	10.45	2.34	2.5E+02	-0.84
	66	10.20	2.19	2.4E+02	10.12	2.22	2.5E+02	-0.77
	67	10.54	2.28	2.4E+02	10.46	2.30	2.5E+02	-0.75
	68	10.66	2.32	2.5E+02	10.58	2.35	2.5E+02	-0.81
	69	10.42	2.26	2.5E+02	10.34	2.29	2.6E+02	-0.79
	70	10.48	2.27	2.4E+02	10.40	2.31	2.5E+02	-0.77
	71	10.60	2.30	2.5E+02	10.51	2.34	2.5E+02	-0.81
	72	10.46	2.24	2.3E+02	10.38	2.29	2.4E+02	-0.79
	73	10.44	2.28	2.5E+02	10.36	2.33	2.5E+02	-0.80
	74	10.59	2.27	2.4E+02	10.51	2.30	2.4E+02	-0.76
	75	10.45	2.29	2.4E+02	10.36	2.33	2.5E+02	-0.78
	76	10.61	2.33	2.4E+02	10.53	2.36	2.4E+02	-0.76
	77	10.30	2.25	2.4E+02	10.22	2.27	2.4E+02	-0.71

AEC-Q200 Summary of Test Results

	Murata P/N: GCJ32ER71E106KA18
Manufacturing Location: Philippine Manufacturing Co. of Murata	Lot No: A,B,C
Date before test: 2025/3/14	Date after test: 2025/5/11

#3 - High Temperature Exposure

Test conditions : 1000hr , 150deg C

	1	10.33	2.23	2.4E+02	10.25	2.26	2.5E+02	-0.78
	2	10.48	2.26	2.5E+02	10.39	2.28	2.5E+02	-0.77
	3	10.25	2.23	2.4E+02	10.17	2.26	2.5E+02	-0.75
	4	10.37	2.23	2.4E+02	10.30	2.25	2.5E+02	-0.76
	5	10.34	2.25	2.4E+02	10.26	2.27	2.5E+02	-0.75
	6	10.24	2.21	2.4E+02	10.16	2.24	2.4E+02	-0.77
	7	10.47	2.25	2.4E+02	10.39	2.28	2.5E+02	-0.78
	8	10.36	2.22	2.4E+02	10.28	2.25	2.5E+02	-0.80
	9	10.21	2.20	2.4E+02	10.13	2.24	2.4E+02	-0.78
	10	10.28	2.21	2.5E+02	10.21	2.24	2.5E+02	-0.75
	11	10.39	2.24	2.4E+02	10.30	2.27	2.5E+02	-0.83
	12	10.34	2.21	2.4E+02	10.25	2.24	2.5E+02	-0.81
	13	10.32	2.22	2.5E+02	10.24	2.26	2.6E+02	-0.84
	14	10.23	2.18	2.4E+02	10.15	2.22	2.4E+02	-0.83
	15	10.44	2.23	2.4E+02	10.35	2.28	2.5E+02	-0.83
	16	10.46	2.24	2.4E+02	10.37	2.28	2.4E+02	-0.85
	17	10.40	2.22	2.4E+02	10.31	2.28	2.4E+02	-0.87
	18	10.22	2.20	2.5E+02	10.14	2.24	2.5E+02	-0.81
	19	10.57	2.29	2.5E+02	10.48	2.31	2.5E+02	-0.80
	20	10.31	2.22	2.4E+02	10.24	2.24	2.5E+02	-0.68
	21	10.52	2.30	2.4E+02	10.44	2.32	2.5E+02	-0.76
	22	10.12	2.19	2.4E+02	10.05	2.21	2.5E+02	-0.73
	23	10.29	2.21	2.4E+02	10.22	2.23	2.5E+02	-0.70
	24	10.22	2.21	2.5E+02	10.15	2.24	2.5E+02	-0.69
	25	10.52	2.29	2.4E+02	10.44	2.33	2.5E+02	-0.72
	26	10.34	2.24	2.4E+02	10.27	2.27	2.5E+02	-0.70
	27	10.38	2.24	2.4E+02	10.31	2.28	2.4E+02	-0.70
	28	10.17	2.19	2.4E+02	10.10	2.23	2.5E+02	-0.72
	29	10.39	2.23	2.4E+02	10.31	2.27	2.5E+02	-0.73
	30	10.40	2.24	2.4E+02	10.33	2.28	2.5E+02	-0.73
	31	10.48	2.29	2.5E+02	10.40	2.33	2.5E+02	-0.80
	32	10.37	2.24	2.4E+02	10.29	2.27	2.4E+02	-0.79
	33	10.33	2.24	2.4E+02	10.25	2.27	2.4E+02	-0.80
	34	10.33	2.24	2.5E+02	10.25	2.28	2.5E+02	-0.84
	35	10.28	2.22	2.4E+02	10.19	2.26	2.5E+02	-0.87
	36	10.32	2.23	2.4E+02	10.22	2.26	2.5E+02	-0.88
	37	10.25	2.22	2.5E+02	10.18	2.26	2.5E+02	-0.70
	38	10.25	2.20	2.4E+02	10.18	2.25	2.5E+02	-0.68
C	39	10.26	2.23	2.4E+02	10.19	2.26	2.5E+02	-0.69
	40	10.53	2.26	2.4E+02	10.45	2.31	2.5E+02	-0.72
	41	10.41	2.22	2.5E+02	10.34	2.26	2.5E+02	-0.68
	42	10.44	2.26	2.4E+02	10.36	2.30	2.5E+02	-0.76
	43	10.40	2.24	2.4E+02	10.32	2.27	2.5E+02	-0.75
	44	10.29	2.23	2.5E+02	10.21	2.26	2.6E+02	-0.72
	45	10.47	2.26	2.4E+02	10.39	2.29	2.5E+02	-0.78
	46	10.32	2.23	2.5E+02	10.24	2.26	2.5E+02	-0.76
	47	10.23	2.20	2.5E+02	10.15	2.23	2.5E+02	-0.73
	48	10.40	2.22	2.4E+02	10.33	2.25	2.5E+02	-0.75
	49	10.41	2.25	2.5E+02	10.33	2.28	2.5E+02	-0.75
	50	10.48	2.26	2.5E+02	10.40	2.30	2.5E+02	-0.76
	51	10.32	2.23	2.5E+02	10.24	2.28	2.5E+02	-0.77
	52	10.26	2.22	2.5E+02	10.18	2.26	2.5E+02	-0.78
	53	10.31	2.22	2.4E+02	10.22	2.26	2.4E+02	-0.82
	54	10.42	2.25	2.5E+02	10.34	2.30	2.5E+02	-0.73
	55	10.42	2.23	2.4E+02	10.36	2.26	2.4E+02	-0.61
	56	10.31	2.21	2.5E+02	10.24	2.23	2.5E+02	-0.65
	57	10.30	2.20	2.4E+02	10.23	2.23	2.4E+02	-0.67
	58	10.32	2.23	2.4E+02	10.25	2.26	2.5E+02	-0.68
	59	10.34	2.23	2.4E+02	10.27	2.26	2.4E+02	-0.66
	60	10.18	2.20	2.4E+02	10.12	2.24	2.4E+02	-0.65
	61	10.54	2.27	2.4E+02	10.47	2.32	2.5E+02	-0.69
	62	10.32	2.23	2.5E+02	10.25	2.27	2.5E+02	-0.68
	63	10.29	2.24	2.4E+02	10.22	2.27	2.5E+02	-0.67
	64	10.27	2.23	2.4E+02	10.20	2.25	2.5E+02	-0.66
	65	10.35	2.22	2.4E+02	10.29	2.25	2.4E+02	-0.65
	66	10.34	2.23	2.5E+02	10.27	2.25	2.5E+02	-0.66
	67	10.54	2.31	2.5E+02	10.47	2.34	2.5E+02	-0.70
	68	10.44	2.25	2.3E+02	10.37	2.29	2.4E+02	-0.68
	69	10.18	2.18	2.4E+02	10.12	2.23	2.5E+02	-0.68
	70	10.32	2.24	2.4E+02	10.25	2.27	2.5E+02	-0.67
	71	10.34	2.23	2.4E+02	10.27	2.27	2.4E+02	-0.67
	72	10.15	2.17	2.4E+02	10.08	2.23	2.4E+02	-0.70
	73	10.37	2.26	2.4E+02	10.29	2.28	2.5E+02	-0.76
	74	10.36	2.24	2.5E+02	10.28	2.27	2.5E+02	-0.75
	75	10.28	2.23	2.4E+02	10.21	2.26	2.5E+02	-0.72
	76	10.35	2.24	2.4E+02	10.27	2.28	2.5E+02	-0.73
	77	10.27	2.22	2.4E+02	10.19	2.25	2.4E+02	-0.74

AEC-Q200 Summary of Test Results

	Murata P/N: GCJ32ER71E106KA18
Manufacturing Location: Philippine Manufacturing Co. of Murata	Lot No: A,B,C
Date before test: 2025/3/8	Date after test: 2025/4/23

#4 - Temperature Cycling

Test conditions : 1000cycles , -55deg C to 125deg C

No. of samples:	77	Initial readings			Final readings			
No. of lots:	3	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Change in capacitance %
Spec limits	lower	9.00		5.0E+01			5.0E+01	-7.50
	upper	11.00	5.00			5.00		7.50
Measurement Statistics	mean	10.565	2.113	2.5E+02	10.332	2.124	2.5E+02	-2.212
	maximum	11.00	2.73	2.6E+02	10.76	2.20	2.7E+02	-1.93
	minimum	10.10	1.94	2.3E+02	9.88	2.02	2.4E+02	-2.66
	standard deviation	0.2173	0.0765	5.7E+00	0.2107	0.0466	5.4E+00	0.0954

Test Data

Lot No	Sample	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Change in capacitance %
A	1	10.59	2.16	2.5E+02	10.35	2.16	2.5E+02	-2.23
	2	10.77	2.16	2.5E+02	10.53	2.16	2.5E+02	-2.23
	3	10.88	2.18	2.4E+02	10.64	2.18	2.4E+02	-2.22
	4	10.77	2.18	2.4E+02	10.53	2.19	2.5E+02	-2.24
	5	10.74	2.13	2.4E+02	10.50	2.13	2.5E+02	-2.20
	6	10.60	2.13	2.4E+02	10.37	2.13	2.5E+02	-2.20
	7	10.75	2.13	2.4E+02	10.52	2.14	2.4E+02	-2.14
	8	10.89	2.16	2.4E+02	10.65	2.17	2.5E+02	-2.19
	9	10.77	2.16	2.4E+02	10.54	2.17	2.5E+02	-2.16
	10	10.75	2.13	2.3E+02	10.51	2.13	2.4E+02	-2.23
	11	10.87	2.16	2.4E+02	10.62	2.17	2.4E+02	-2.26
	12	10.89	2.17	2.4E+02	10.65	2.17	2.4E+02	-2.24
	13	10.80	2.13	2.4E+02	10.57	2.13	2.4E+02	-2.14
	14	10.75	2.18	2.4E+02	10.52	2.18	2.4E+02	-2.19
	15	10.89	2.17	2.4E+02	10.65	2.18	2.5E+02	-2.25
	16	10.92	2.19	2.5E+02	10.69	2.19	2.5E+02	-2.13
	17	11.00	2.18	2.3E+02	10.76	2.18	2.4E+02	-2.20
	18	10.72	2.16	2.4E+02	10.49	2.17	2.5E+02	-2.16
	19	10.75	2.17	2.4E+02	10.51	2.16	2.5E+02	-2.21
	20	10.66	2.13	2.5E+02	10.43	2.14	2.5E+02	-2.13
	21	10.82	2.15	2.4E+02	10.59	2.16	2.4E+02	-2.16
	22	10.72	2.16	2.4E+02	10.49	2.17	2.4E+02	-2.18
	23	10.79	2.18	2.3E+02	10.55	2.18	2.4E+02	-2.23
	24	10.64	2.16	2.4E+02	10.41	2.16	2.4E+02	-2.13
	25	10.87	2.17	2.4E+02	10.64	2.18	2.4E+02	-2.12
	26	10.96	2.18	2.4E+02	10.73	2.19	2.4E+02	-2.11
	27	10.80	2.17	2.4E+02	10.57	2.18	2.5E+02	-2.13
	28	10.75	2.18	2.4E+02	10.50	2.19	2.5E+02	-2.26
	29	10.87	2.18	2.4E+02	10.62	2.18	2.4E+02	-2.30
	30	10.86	2.16	2.3E+02	10.62	2.16	2.4E+02	-2.20
	31	10.76	2.16	2.4E+02	10.52	2.17	2.4E+02	-2.25
	32	10.85	2.16	2.4E+02	10.62	2.17	2.4E+02	-2.16
	33	10.78	2.15	2.4E+02	10.55	2.15	2.4E+02	-2.15
	34	10.68	2.15	2.5E+02	10.41	2.10	2.4E+02	-2.44
	35	10.79	2.17	2.4E+02	10.56	2.18	2.4E+02	-2.09
	36	10.73	2.13	2.4E+02	10.51	2.15	2.4E+02	-2.05
	37	10.74	2.15	2.5E+02	10.51	2.15	2.5E+02	-2.21
	38	10.90	2.18	2.3E+02	10.65	2.18	2.4E+02	-2.25
	39	10.97	2.19	2.4E+02	10.73	2.20	2.4E+02	-2.17
	40	10.65	2.15	2.4E+02	10.43	2.16	2.4E+02	-2.13
	41	10.86	2.15	2.4E+02	10.62	2.15	2.4E+02	-2.24
	42	10.56	2.10	2.4E+02	10.33	2.11	2.4E+02	-2.14
	43	10.77	2.19	2.4E+02	10.54	2.19	2.5E+02	-2.15
	44	10.65	2.13	2.4E+02	10.43	2.14	2.5E+02	-2.05
	45	10.88	2.15	2.4E+02	10.65	2.17	2.4E+02	-2.10
	46	10.87	2.17	2.5E+02	10.62	2.17	2.5E+02	-2.35
	47	10.73	2.16	2.5E+02	10.49	2.16	2.5E+02	-2.27
	48	10.80	2.12	2.4E+02	10.54	2.08	2.4E+02	-2.44
	49	10.80	2.19	2.5E+02	10.51	2.16	2.5E+02	-2.66
	50	10.76	2.15	2.4E+02	10.52	2.14	2.4E+02	-2.28
	51	10.81	2.18	2.5E+02	10.57	2.19	2.5E+02	-2.25
	52	10.75	2.16	2.4E+02	10.51	2.17	2.4E+02	-2.18
	53	10.80	2.14	2.4E+02	10.57	2.15	2.4E+02	-2.16
	54	10.71	2.12	2.4E+02	10.48	2.13	2.4E+02	-2.12
	55	10.83	2.17	2.4E+02	10.58	2.17	2.5E+02	-2.32
	56	10.83	2.17	2.4E+02	10.59	2.18	2.5E+02	-2.28
	57	10.58	2.09	2.4E+02	10.35	2.09	2.5E+02	-2.20
	58	10.73	2.17	2.4E+02	10.49	2.17	2.5E+02	-2.23
	59	10.77	2.17	2.5E+02	10.52	2.16	2.5E+02	-2.30
	60	10.77	2.15	2.4E+02	10.52	2.15	2.4E+02	-2.28
	61	10.79	2.19	2.4E+02	10.54	2.19	2.4E+02	-2.25
	62	10.79	2.18	2.4E+02	10.56	2.18	2.4E+02	-2.14
	63	10.91	2.18	2.4E+02	10.67	2.18	2.4E+02	-2.14
	64	10.75	2.13	2.4E+02	10.51	2.13	2.5E+02	-2.23
	65	10.79	2.16	2.4E+02	10.55	2.16	2.4E+02	-2.31
	66	10.72	2.13	2.4E+02	10.48	2.13	2.5E+02	-2.26
	67	10.70	2.15	2.5E+02	10.46	2.15	2.5E+02	-2.24
	68	10.86	2.16	2.5E+02	10.62	2.16	2.5E+02	-2.23
	69	10.75	2.15	2.4E+02	10.51	2.15	2.5E+02	-2.25
	70	10.64	2.13	2.4E+02	10.40	2.13	2.4E+02	-2.20
	71	10.70	2.15	2.4E+02	10.47	2.15	2.5E+02	-2.16
	72	10.75	2.17	2.4E+02	10.52	2.18	2.4E+02	-2.15
	73	10.80	2.15	2.4E+02	10.55	2.16	2.5E+02	-2.30
	74	10.85	2.18	2.5E+02	10.60	2.19	2.4E+02	-2.25
	75	10.63	2.15	2.5E+02	10.39	2.16	2.5E+02	-2.22
	76	10.76	2.15	2.5E+02	10.52	2.16	2.4E+02	-2.21
	77	10.81	2.19	2.5E+02	10.57	2.19	2.5E+02	-2.22

AEC-Q200 Summary of Test Results

	Murata P/N: GCJ32ER71E106KA18
Manufacturing Location: Philippine Manufacturing Co. of Murata	Lot No: A,B,C
Date before test: 2025/3/8	Date after test: 2025/4/23

#4 - Temperature Cycling

Test conditions : 1000cycles , -55deg C to 125deg C

	1	10.31	2.07	2.5E+02	10.09	2.08	2.5E+02	-2.14
	2	10.47	2.05	2.4E+02	10.24	2.06	2.4E+02	-2.15
	3	10.48	2.10	2.5E+02	10.24	2.11	2.5E+02	-2.22
	4	10.66	2.18	2.6E+02	10.42	2.19	2.6E+02	-2.28
	5	10.58	2.13	2.5E+02	10.34	2.14	2.6E+02	-2.25
	6	10.59	2.14	2.5E+02	10.36	2.15	2.6E+02	-2.22
	7	10.75	2.15	2.6E+02	10.51	2.16	2.6E+02	-2.21
	8	10.58	2.15	2.5E+02	10.34	2.17	2.6E+02	-2.18
	9	10.73	2.14	2.5E+02	10.50	2.16	2.5E+02	-2.14
	10	10.74	2.13	2.4E+02	10.51	2.17	2.5E+02	-2.11
	11	10.37	2.09	2.4E+02	10.15	2.11	2.4E+02	-2.20
	12	10.31	2.08	2.5E+02	10.08	2.10	2.6E+02	-2.18
	13	10.74	2.16	2.5E+02	10.50	2.18	2.5E+02	-2.24
	14	10.83	2.13	2.4E+02	10.59	2.15	2.4E+02	-2.22
	15	10.74	2.15	2.5E+02	10.50	2.17	2.5E+02	-2.25
	16	10.78	2.15	2.4E+02	10.54	2.17	2.5E+02	-2.22
	17	10.65	2.15	2.5E+02	10.42	2.16	2.6E+02	-2.20
	18	10.67	2.14	2.5E+02	10.44	2.16	2.5E+02	-2.20
	19	10.50	2.07	2.5E+02	10.27	2.09	2.5E+02	-2.17
	20	10.73	2.12	2.5E+02	10.50	2.14	2.5E+02	-2.15
	21	10.35	2.08	2.5E+02	10.13	2.11	2.5E+02	-2.12
	22	10.57	2.12	2.5E+02	10.34	2.14	2.5E+02	-2.19
	23	10.43	2.07	2.4E+02	10.21	2.10	2.4E+02	-2.15
	24	10.56	2.10	2.5E+02	10.34	2.12	2.5E+02	-2.17
	25	10.78	2.17	2.6E+02	10.56	2.20	2.6E+02	-2.11
	26	10.75	2.12	2.4E+02	10.52	2.16	2.4E+02	-2.10
	27	10.44	2.11	2.5E+02	10.23	2.14	2.5E+02	-2.07
	28	10.53	2.13	2.5E+02	10.30	2.15	2.5E+02	-2.20
	29	10.70	2.17	2.6E+02	10.45	2.19	2.5E+02	-2.30
	30	10.47	2.08	2.5E+02	10.23	2.10	2.5E+02	-2.24
	31	10.43	2.04	2.4E+02	10.21	2.06	2.4E+02	-2.12
	32	10.63	2.15	2.5E+02	10.39	2.18	2.6E+02	-2.21
	33	10.74	2.16	2.6E+02	10.51	2.19	2.7E+02	-2.16
	34	10.65	2.17	2.5E+02	10.42	2.19	2.5E+02	-2.20
	35	10.71	2.16	2.5E+02	10.48	2.19	2.5E+02	-2.20
	36	10.71	2.17	2.6E+02	10.48	2.20	2.5E+02	-2.17
	37	10.75	2.14	2.5E+02	10.50	2.15	2.5E+02	-2.28
	38	10.62	2.13	2.5E+02	10.38	2.15	2.5E+02	-2.25
B	39	10.60	2.14	2.5E+02	10.36	2.15	2.5E+02	-2.24
	40	10.70	2.14	2.4E+02	10.46	2.16	2.4E+02	-2.23
	41	10.65	2.17	2.5E+02	10.41	2.19	2.6E+02	-2.28
	42	10.59	2.10	2.4E+02	10.36	2.12	2.4E+02	-2.15
	43	10.58	2.11	2.4E+02	10.36	2.13	2.5E+02	-2.12
	44	10.63	2.14	2.5E+02	10.40	2.16	2.5E+02	-2.16
	45	10.81	2.16	2.4E+02	10.58	2.15	2.5E+02	-2.16
	46	10.63	2.15	2.5E+02	10.38	2.16	2.6E+02	-2.34
	47	10.50	2.09	2.5E+02	10.26	2.11	2.5E+02	-2.28
	48	10.63	2.10	2.4E+02	10.39	2.12	2.5E+02	-2.23
	49	10.68	2.12	2.4E+02	10.44	2.13	2.4E+02	-2.27
	50	10.36	2.06	2.4E+02	10.13	2.08	2.5E+02	-2.22
	51	10.57	2.11	2.5E+02	10.34	2.13	2.5E+02	-2.19
	52	10.67	2.17	2.6E+02	10.43	2.19	2.6E+02	-2.22
	53	10.52	2.08	2.3E+02	10.30	2.10	2.4E+02	-2.13
	54	10.33	2.08	2.5E+02	10.10	2.10	2.6E+02	-2.20
	55	10.64	2.11	2.4E+02	10.40	2.12	2.5E+02	-2.30
	56	10.24	2.07	2.5E+02	10.01	2.09	2.5E+02	-2.26
	57	10.46	2.12	2.5E+02	10.23	2.13	2.5E+02	-2.26
	58	10.57	2.12	2.5E+02	10.32	2.13	2.5E+02	-2.38
	59	10.56	2.13	2.5E+02	10.31	2.14	2.5E+02	-2.35
	60	10.62	2.13	2.4E+02	10.38	2.14	2.5E+02	-2.29
	61	10.64	2.14	2.5E+02	10.40	2.15	2.6E+02	-2.28
	62	10.51	2.10	2.4E+02	10.27	2.12	2.5E+02	-2.27
	63	10.41	2.11	2.5E+02	10.18	2.13	2.5E+02	-2.22
	64	10.61	2.13	2.5E+02	10.35	2.13	2.5E+02	-2.46
	65	10.69	2.73	2.5E+02	10.42	2.16	2.5E+02	-2.48
	66	10.72	2.13	2.6E+02	10.45	2.14	2.5E+02	-2.51
	67	10.24	2.07	2.5E+02	10.01	2.07	2.5E+02	-2.32
	68	10.67	2.14	2.4E+02	10.41	2.14	2.4E+02	-2.44
	69	10.55	2.10	2.4E+02	10.31	2.10	2.5E+02	-2.30
	70	10.65	2.16	2.5E+02	10.39	2.17	2.6E+02	-2.39
	71	10.50	2.12	2.4E+02	10.25	2.12	2.5E+02	-2.37
	72	10.34	2.05	2.5E+02	10.11	2.06	2.5E+02	-2.30
	73	10.85	2.14	2.4E+02	10.59	2.15	2.4E+02	-2.42
	74	10.57	2.12	2.5E+02	10.31	2.13	2.5E+02	-2.45
	75	10.59	2.12	2.5E+02	10.34	2.13	2.5E+02	-2.39
	76	10.37	2.04	2.4E+02	10.13	2.06	2.4E+02	-2.29
	77	10.33	2.06	2.4E+02	10.10	2.07	2.5E+02	-2.25

AEC-Q200 Summary of Test Results

	Murata P/N: GCJ32ER71E106KA18
Manufacturing Location: Philippine Manufacturing Co. of Murata	Lot No: A,B,C
Date before test: 2025/3/8	Date after test: 2025/4/23

#4 - Temperature Cycling

Test conditions : 1000cycles , -55deg C to 125deg C

	1	10.32	2.06	2.5E+02	10.09	2.06	2.5E+02	-2.21
	2	10.30	2.04	2.4E+02	10.07	2.05	2.5E+02	-2.24
	3	10.50	2.10	2.5E+02	10.27	2.11	2.5E+02	-2.20
	4	10.15	2.02	2.5E+02	9.93	2.02	2.5E+02	-2.16
	5	10.26	2.03	2.5E+02	10.04	2.04	2.5E+02	-2.14
	6	10.14	2.03	2.5E+02	9.92	2.04	2.5E+02	-2.20
	7	10.31	2.04	2.4E+02	10.08	2.05	2.4E+02	-2.20
	8	10.44	2.10	2.6E+02	10.21	2.11	2.6E+02	-2.23
	9	10.35	2.06	2.5E+02	10.12	2.07	2.5E+02	-2.17
	10	10.59	2.14	2.5E+02	10.36	2.15	2.5E+02	-2.24
	11	10.42	2.08	2.5E+02	10.20	2.10	2.5E+02	-2.19
	12	10.32	2.06	2.5E+02	10.10	2.08	2.5E+02	-2.14
	13	10.45	2.09	2.5E+02	10.21	2.10	2.5E+02	-2.21
	14	10.41	2.08	2.4E+02	10.18	2.09	2.4E+02	-2.16
	15	10.19	2.03	2.5E+02	9.97	2.05	2.5E+02	-2.17
	16	10.43	2.07	2.5E+02	10.21	2.08	2.5E+02	-2.16
	17	10.27	2.05	2.5E+02	10.05	2.06	2.5E+02	-2.23
	18	10.41	2.08	2.5E+02	10.18	2.09	2.5E+02	-2.22
	19	10.20	2.05	2.6E+02	9.98	2.06	2.6E+02	-2.21
	20	10.35	2.06	2.5E+02	10.13	2.08	2.5E+02	-2.16
	21	10.33	2.05	2.5E+02	10.12	2.07	2.5E+02	-2.11
	22	10.23	2.04	2.5E+02	10.01	2.05	2.5E+02	-2.15
	23	10.42	2.58	2.5E+02	10.20	2.09	2.5E+02	-2.17
	24	10.28	2.05	2.5E+02	10.05	2.07	2.5E+02	-2.21
	25	10.56	2.11	2.5E+02	10.34	2.13	2.5E+02	-2.15
	26	10.46	2.11	2.5E+02	10.23	2.13	2.5E+02	-2.22
	27	10.26	2.05	2.4E+02	10.04	2.07	2.4E+02	-2.14
	28	10.32	2.05	2.4E+02	10.09	2.07	2.4E+02	-2.19
	29	10.34	2.06	2.5E+02	10.11	2.07	2.5E+02	-2.21
	30	10.28	2.04	2.5E+02	10.06	2.05	2.5E+02	-2.16
	31	10.37	2.06	2.5E+02	10.15	2.07	2.5E+02	-2.16
	32	10.38	2.09	2.6E+02	10.15	2.11	2.6E+02	-2.21
	33	10.29	2.06	2.4E+02	10.07	2.07	2.4E+02	-2.20
	34	10.28	2.05	2.4E+02	10.05	2.07	2.4E+02	-2.18
	35	10.51	2.08	2.5E+02	10.28	2.10	2.5E+02	-2.18
	36	10.35	2.07	2.4E+02	10.12	2.08	2.4E+02	-2.20
	37	10.35	2.05	2.4E+02	10.13	2.07	2.5E+02	-2.17
	38	10.19	2.02	2.6E+02	9.97	2.04	2.6E+02	-2.21
C	39	10.26	2.03	2.4E+02	10.04	2.05	2.5E+02	-2.12
	40	10.37	2.07	2.5E+02	10.14	2.09	2.5E+02	-2.20
	41	10.28	2.05	2.4E+02	10.06	2.07	2.4E+02	-2.19
	42	10.43	2.10	2.6E+02	10.20	2.11	2.6E+02	-2.22
	43	10.61	2.12	2.5E+02	10.38	2.14	2.5E+02	-2.21
	44	10.36	2.05	2.4E+02	10.13	2.07	2.4E+02	-2.18
	45	10.27	2.04	2.5E+02	10.05	2.06	2.5E+02	-2.15
	46	10.28	2.06	2.5E+02	10.05	2.07	2.5E+02	-2.26
	47	10.39	2.06	2.5E+02	10.16	2.07	2.5E+02	-2.24
	48	10.34	2.07	2.5E+02	10.11	2.09	2.5E+02	-2.22
	49	10.57	2.10	2.5E+02	10.33	2.11	2.5E+02	-2.24
	50	10.43	2.09	2.4E+02	10.20	2.10	2.5E+02	-2.21
	51	10.49	2.09	2.5E+02	10.25	2.11	2.5E+02	-2.24
	52	10.18	2.02	2.5E+02	9.96	2.04	2.5E+02	-2.16
	53	10.58	2.13	2.5E+02	10.34	2.15	2.5E+02	-2.25
	54	10.10	2.02	2.5E+02	9.88	2.04	2.5E+02	-2.20
	55	10.22	1.99	2.6E+02	10.01	2.06	2.6E+02	-2.05
	56	10.17	1.98	2.5E+02	9.97	2.07	2.5E+02	-2.02
	57	10.16	1.94	2.4E+02	9.96	2.03	2.4E+02	-1.93
	58	10.21	1.99	2.4E+02	10.01	2.08	2.5E+02	-2.00
	59	10.47	2.01	2.5E+02	10.26	2.10	2.5E+02	-2.04
	60	10.37	2.00	2.5E+02	10.15	2.09	2.5E+02	-2.06
	61	10.34	2.00	2.5E+02	10.12	2.09	2.6E+02	-2.08
	62	10.21	2.00	2.4E+02	10.00	2.07	2.5E+02	-2.09
	63	10.40	2.03	2.4E+02	10.18	2.10	2.4E+02	-2.11
	64	10.30	1.97	2.5E+02	10.09	2.05	2.5E+02	-2.01
	65	10.18	1.95	2.5E+02	9.98	2.04	2.5E+02	-2.03
	66	10.41	1.99	2.5E+02	10.20	2.08	2.5E+02	-2.05
	67	10.34	1.98	2.5E+02	10.13	2.07	2.5E+02	-2.10
	68	10.10	1.94	2.5E+02	9.89	2.04	2.5E+02	-2.08
	69	10.30	1.97	2.4E+02	10.08	2.05	2.5E+02	-2.08
	70	10.39	2.04	2.5E+02	10.16	2.09	2.6E+02	-2.20
	71	10.18	2.07	2.4E+02	9.93	2.03	2.5E+02	-2.54
	72	10.44	2.06	2.5E+02	10.20	2.10	2.5E+02	-2.28
	73	10.18	2.01	2.5E+02	9.95	2.02	2.5E+02	-2.33
	74	10.52	2.09	2.5E+02	10.28	2.09	2.5E+02	-2.35
	75	10.48	2.10	2.5E+02	10.23	2.10	2.5E+02	-2.37
	76	10.35	2.09	2.5E+02	10.10	2.09	2.5E+02	-2.41
	77	10.22	2.04	2.5E+02	9.98	2.04	2.4E+02	-2.32

AEC-Q200 Summary of Test Results

	Murata P/N: GCJ32ER71E106KA18
Manufacturing Location: Philippine Manufacturing Co. of Murata	Lot No: A
Date before test: 2025/5/13	Date after test: 2025/5/16

#5 - Destructive Physical Analysis

Number of Samples: 10 Number of Lots: 1		Number of failures: 0
Lot No	Sample	Result (pass/fail)
A	1	pass
	2	pass
	3	pass
	4	pass
	5	pass
	6	pass
	7	pass
	8	pass
	9	pass
	10	pass

AEC-Q200 Summary of Test Results

	Murata P/N: GCJ32ER71E106KA18
Manufacturing Location: Philippine Manufacturing Co. of Murata	Lot No: A,B,C
Date before test: 2025/3/22	Date after test: 2025/4/7

#6 - Moisture Resistance

Test conditions : 10cycles(1cycle : 24hr) , 25deg C / 80% RH to 65deg C / 98% RH

No. of samples:	77	Initial readings			Final readings			
No. of lots:	3	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Change in capacitance %
Spec limits	lower	9.00		5.0E+01			5.0E+01	-10.00
	upper	11.00	5.00			5.00		10.00
Measurement Statistics	mean	10.542	1.902	2.5E+02	10.205	1.853	2.8E+02	-3.202
	maximum	10.80	2.18	2.6E+02	10.45	2.23	2.9E+02	-3.02
	minimum	10.14	1.79	2.5E+02	9.83	1.73	2.7E+02	-3.39
	standard deviation	0.1066	0.0439	3.1E+00	0.1004	0.0520	3.5E+00	0.0647

Test Data

Lot No	Sample	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Change in capacitance %
A	1	10.52	1.93	2.6E+02	10.17	1.87	2.9E+02	-3.32
	2	10.63	1.90	2.5E+02	10.28	1.89	2.8E+02	-3.29
	3	10.63	1.90	2.6E+02	10.28	1.89	2.8E+02	-3.30
	4	10.45	1.88	2.6E+02	10.12	1.83	2.9E+02	-3.23
	5	10.65	1.90	2.6E+02	10.31	1.85	2.8E+02	-3.25
	6	10.54	1.90	2.5E+02	10.20	1.83	2.8E+02	-3.21
	7	10.60	1.92	2.5E+02	10.25	1.87	2.8E+02	-3.26
	8	10.48	1.86	2.5E+02	10.14	1.82	2.8E+02	-3.20
	9	10.45	1.88	2.6E+02	10.12	1.82	2.8E+02	-3.19
	10	10.60	1.89	2.5E+02	10.25	1.83	2.8E+02	-3.23
	11	10.50	1.89	2.6E+02	10.16	1.85	2.8E+02	-3.26
	12	10.40	1.87	2.6E+02	10.06	1.83	2.9E+02	-3.20
	13	10.60	1.92	2.5E+02	10.26	1.86	2.8E+02	-3.26
	14	10.67	1.90	2.5E+02	10.32	1.85	2.8E+02	-3.30
	15	10.22	1.81	2.5E+02	9.90	1.78	2.8E+02	-3.17
	16	10.49	1.91	2.5E+02	10.14	1.87	2.8E+02	-3.28
	17	10.42	1.89	2.6E+02	10.08	1.88	2.9E+02	-3.32
	18	10.66	1.95	2.5E+02	10.30	1.88	2.8E+02	-3.39
	19	10.51	1.94	2.5E+02	10.17	1.88	2.8E+02	-3.22
	20	10.59	1.96	2.5E+02	10.25	1.89	2.8E+02	-3.22
	21	10.62	1.97	2.5E+02	10.28	1.97	2.8E+02	-3.23
	22	10.48	1.90	2.5E+02	10.15	1.88	2.8E+02	-3.18
	23	10.53	1.90	2.6E+02	10.19	1.88	2.8E+02	-3.22
	24	10.51	1.93	2.5E+02	10.16	1.85	2.8E+02	-3.33
	25	10.65	1.90	2.5E+02	10.30	1.87	2.8E+02	-3.22
	26	10.41	1.87	2.5E+02	10.08	1.85	2.8E+02	-3.19
	27	10.60	1.92	2.5E+02	10.26	1.92	2.8E+02	-3.22
	28	10.59	1.93	2.6E+02	10.24	1.94	2.8E+02	-3.26
	29	10.56	1.92	2.6E+02	10.22	1.96	2.9E+02	-3.20
	30	10.38	1.90	2.6E+02	10.05	1.85	2.9E+02	-3.19
	31	10.65	1.91	2.6E+02	10.30	2.23	2.8E+02	-3.34
	32	10.57	1.93	2.6E+02	10.23	1.91	2.9E+02	-3.20
	33	10.58	1.89	2.6E+02	10.23	1.95	2.9E+02	-3.25
	34	10.49	1.87	2.6E+02	10.15	1.85	2.9E+02	-3.23
	35	10.66	1.90	2.6E+02	10.31	1.86	2.8E+02	-3.30
	36	10.42	1.89	2.6E+02	10.07	1.81	2.9E+02	-3.28
	37	10.56	1.91	2.6E+02	10.21	1.86	2.9E+02	-3.26
	38	10.62	1.89	2.6E+02	10.28	1.85	2.8E+02	-3.23
	39	10.51	1.85	2.6E+02	10.18	1.76	2.8E+02	-3.17
	40	10.61	1.89	2.6E+02	10.27	1.84	2.9E+02	-3.22
	41	10.65	1.88	2.6E+02	10.30	1.81	2.8E+02	-3.22
	42	10.64	1.90	2.6E+02	10.30	1.84	2.9E+02	-3.21
	43	10.61	1.88	2.5E+02	10.27	1.77	2.8E+02	-3.21
	44	10.71	1.92	2.6E+02	10.37	1.85	2.8E+02	-3.18
	45	10.36	1.87	2.5E+02	10.04	1.81	2.8E+02	-3.16
	46	10.64	1.90	2.5E+02	10.29	1.82	2.8E+02	-3.25
	47	10.67	1.90	2.5E+02	10.33	1.82	2.8E+02	-3.23
	48	10.57	1.91	2.6E+02	10.23	1.84	2.9E+02	-3.28
	49	10.36	1.86	2.6E+02	10.03	1.74	2.9E+02	-3.15
	50	10.54	1.90	2.6E+02	10.20	1.80	2.8E+02	-3.22
	51	10.54	1.90	2.6E+02	10.20	1.84	2.9E+02	-3.22
	52	10.53	1.87	2.5E+02	10.19	1.76	2.8E+02	-3.25
	53	10.48	1.89	2.6E+02	10.14	1.79	2.9E+02	-3.26
	54	10.63	1.90	2.5E+02	10.28	1.81	2.8E+02	-3.33
	55	10.62	1.88	2.5E+02	10.28	1.85	2.8E+02	-3.18
	56	10.48	1.90	2.5E+02	10.16	1.84	2.8E+02	-3.12
	57	10.46	1.84	2.5E+02	10.14	1.82	2.8E+02	-3.08
	58	10.55	1.91	2.5E+02	10.22	1.87	2.8E+02	-3.16
	59	10.55	1.91	2.5E+02	10.22	1.87	2.8E+02	-3.18
	60	10.40	1.89	2.6E+02	10.08	1.85	2.8E+02	-3.09
	61	10.56	1.91	2.5E+02	10.23	1.88	2.8E+02	-3.14
	62	10.66	1.93	2.6E+02	10.32	1.87	2.8E+02	-3.16
	63	10.56	1.89	2.6E+02	10.23	1.87	2.8E+02	-3.14
	64	10.69	1.88	2.5E+02	10.35	1.85	2.8E+02	-3.16
	65	10.59	1.89	2.5E+02	10.26	1.86	2.8E+02	-3.13
	66	10.38	1.86	2.5E+02	10.06	1.84	2.8E+02	-3.09
	67	10.55	1.87	2.6E+02	10.22	1.87	2.8E+02	-3.18
	68	10.67	1.89	2.6E+02	10.33	1.87	2.9E+02	-3.18
	69	10.37	1.79	2.6E+02	10.05	1.81	2.9E+02	-3.12
	70	10.47	1.86	2.6E+02	10.13	1.91	2.9E+02	-3.24
	71	10.74	1.86	2.6E+02	10.38	1.87	2.8E+02	-3.29
	72	10.46	1.83	2.6E+02	10.12	1.83	2.9E+02	-3.26
	73	10.56	1.91	2.5E+02	10.22	1.89	2.8E+02	-3.21
	74	10.53	1.94	2.5E+02	10.20	1.96	2.8E+02	-3.14
	75	10.45	1.93	2.6E+02	10.12	1.89	2.9E+02	-3.14
	76	10.42	1.87	2.5E+02	10.10	1.83	2.8E+02	-3.07
	77	10.50	1.96	2.5E+02	10.17	1.86	2.8E+02	-3.13

AEC-Q200 Summary of Test Results

	Murata P/N: GCJ32ER71E106KA18
Manufacturing Location: Philippine Manufacturing Co. of Murata	Lot No: A,B,C
Date before test: 2025/3/22	Date after test: 2025/4/7

#6 - Moisture Resistance

Test conditions : 10cycles(1cycle : 24hr) , 25deg C / 80% RH to 65deg C / 98% RH

	1	10.50	1.90	2.6E+02	10.16	1.86	2.9E+02	-3.22
	2	10.60	1.91	2.5E+02	10.26	1.89	2.8E+02	-3.23
	3	10.54	1.89	2.6E+02	10.20	1.86	2.9E+02	-3.23
	4	10.56	1.90	2.6E+02	10.21	1.88	2.9E+02	-3.25
	5	10.71	1.93	2.5E+02	10.36	1.88	2.8E+02	-3.24
	6	10.43	1.86	2.5E+02	10.11	1.83	2.8E+02	-3.14
	7	10.58	1.93	2.5E+02	10.24	1.90	2.9E+02	-3.23
	8	10.35	1.83	2.5E+02	10.03	1.80	2.8E+02	-3.12
	9	10.55	1.89	2.5E+02	10.21	1.85	2.8E+02	-3.22
	10	10.62	1.91	2.6E+02	10.27	1.86	2.9E+02	-3.25
	11	10.53	1.89	2.5E+02	10.20	1.86	2.8E+02	-3.21
	12	10.44	1.92	2.6E+02	10.10	1.88	2.9E+02	-3.23
	13	10.46	1.91	2.6E+02	10.12	1.95	2.9E+02	-3.26
	14	10.61	1.90	2.5E+02	10.26	1.87	2.8E+02	-3.24
	15	10.64	1.91	2.5E+02	10.30	1.86	2.8E+02	-3.25
	16	10.63	1.92	2.5E+02	10.28	1.90	2.8E+02	-3.30
	17	10.59	1.87	2.5E+02	10.24	1.86	2.8E+02	-3.25
	18	10.49	1.91	2.5E+02	10.15	1.87	2.8E+02	-3.30
	19	10.72	1.94	2.5E+02	10.38	1.97	2.8E+02	-3.17
	20	10.60	1.95	2.5E+02	10.27	1.91	2.8E+02	-3.16
	21	10.61	1.94	2.5E+02	10.28	1.91	2.9E+02	-3.11
	22	10.56	1.94	2.5E+02	10.23	1.90	2.8E+02	-3.11
	23	10.72	2.00	2.5E+02	10.39	1.89	2.8E+02	-3.11
	24	10.54	1.92	2.5E+02	10.21	1.87	2.8E+02	-3.11
	25	10.57	1.94	2.5E+02	10.24	1.87	2.8E+02	-3.16
	26	10.62	1.94	2.5E+02	10.28	1.89	2.8E+02	-3.16
	27	10.62	1.99	2.5E+02	10.29	1.88	2.8E+02	-3.15
	28	10.46	1.88	2.6E+02	10.13	1.85	2.9E+02	-3.11
	29	10.74	1.92	2.5E+02	10.40	1.89	2.8E+02	-3.16
	30	10.14	1.84	2.6E+02	9.83	1.80	2.9E+02	-3.07
	31	10.63	1.92	2.6E+02	10.30	1.92	2.9E+02	-3.16
	32	10.58	1.90	2.6E+02	10.24	1.86	2.9E+02	-3.15
	33	10.63	1.84	2.5E+02	10.29	1.79	2.8E+02	-3.23
	34	10.46	1.87	2.6E+02	10.13	1.83	2.9E+02	-3.12
	35	10.55	1.86	2.5E+02	10.21	1.84	2.9E+02	-3.24
	36	10.53	1.90	2.5E+02	10.19	1.82	2.9E+02	-3.25
	37	10.56	1.88	2.5E+02	10.22	1.87	2.9E+02	-3.18
	38	10.70	1.92	2.5E+02	10.35	1.86	2.8E+02	-3.23
B	39	10.68	1.90	2.6E+02	10.34	1.81	2.9E+02	-3.21
	40	10.36	1.87	2.5E+02	10.04	1.81	2.8E+02	-3.09
	41	10.23	1.80	2.5E+02	9.92	1.74	2.8E+02	-3.05
	42	10.49	1.86	2.5E+02	10.16	1.76	2.8E+02	-3.12
	43	10.54	1.90	2.6E+02	10.20	1.80	2.9E+02	-3.21
	44	10.45	1.89	2.5E+02	10.12	1.84	2.9E+02	-3.17
	45	10.60	1.93	2.5E+02	10.27	1.84	2.8E+02	-3.17
	46	10.58	1.89	2.5E+02	10.24	1.83	2.8E+02	-3.22
	47	10.70	1.94	2.5E+02	10.36	1.88	2.8E+02	-3.25
	48	10.18	1.82	2.6E+02	9.86	1.79	2.9E+02	-3.08
	49	10.44	1.87	2.5E+02	10.12	1.76	2.8E+02	-3.15
	50	10.58	1.91	2.5E+02	10.24	1.85	2.9E+02	-3.21
	51	10.57	1.89	2.5E+02	10.23	1.86	2.9E+02	-3.24
	52	10.62	1.86	2.5E+02	10.27	1.78	2.9E+02	-3.25
	53	10.49	1.87	2.5E+02	10.14	1.79	2.8E+02	-3.26
	54	10.57	1.87	2.5E+02	10.22	1.78	2.8E+02	-3.26
	55	10.63	1.92	2.5E+02	10.29	1.91	2.8E+02	-3.26
	56	10.60	2.00	2.5E+02	10.26	1.87	2.8E+02	-3.18
	57	10.48	1.85	2.5E+02	10.15	1.83	2.8E+02	-3.11
	58	10.47	1.89	2.5E+02	10.14	1.87	2.8E+02	-3.11
	59	10.75	1.96	2.5E+02	10.41	1.88	2.8E+02	-3.19
	60	10.35	1.84	2.6E+02	10.04	1.79	2.9E+02	-3.08
	61	10.32	1.83	2.5E+02	10.00	1.80	2.8E+02	-3.12
	62	10.62	1.91	2.5E+02	10.28	1.86	2.8E+02	-3.23
	63	10.41	1.88	2.6E+02	10.08	1.83	2.9E+02	-3.23
	64	10.59	1.90	2.5E+02	10.24	1.86	2.9E+02	-3.28
	65	10.52	1.90	2.6E+02	10.17	1.87	2.9E+02	-3.29
	66	10.74	1.90	2.5E+02	10.39	1.87	2.8E+02	-3.28
	67	10.50	1.87	2.5E+02	10.16	1.86	2.9E+02	-3.28
	68	10.61	1.86	2.5E+02	10.26	1.85	2.8E+02	-3.26
	69	10.38	1.81	2.5E+02	10.05	1.81	2.9E+02	-3.21
	70	10.31	1.82	2.6E+02	9.98	1.82	2.9E+02	-3.20
	71	10.66	1.83	2.5E+02	10.31	1.85	2.8E+02	-3.32
	72	10.71	1.86	2.5E+02	10.35	1.84	2.8E+02	-3.32
	73	10.48	1.92	2.6E+02	10.14	1.88	2.9E+02	-3.26
	74	10.50	1.91	2.6E+02	10.16	1.89	2.9E+02	-3.23
	75	10.59	1.86	2.5E+02	10.25	1.83	2.8E+02	-3.22
	76	10.62	1.90	2.5E+02	10.28	1.88	2.9E+02	-3.27
	77	10.54	1.93	2.5E+02	10.19	1.89	2.9E+02	-3.31

AEC-Q200 Summary of Test Results

	Murata P/N: GCJ32ER71E106KA18
Manufacturing Location: Philippine Manufacturing Co. of Murata	Lot No: A,B,C
Date before test: 2025/3/22	Date after test: 2025/4/7

#6 - Moisture Resistance

Test conditions : 10cycles(1cycle : 24hr) , 25deg C / 80% RH to 65deg C / 98% RH

	1	10.52	1.95	2.6E+02	10.17	1.91	2.9E+02	-3.31
	2	10.59	1.91	2.5E+02	10.25	1.98	2.8E+02	-3.24
	3	10.55	1.91	2.5E+02	10.21	1.88	2.8E+02	-3.28
	4	10.58	1.96	2.6E+02	10.24	1.97	2.9E+02	-3.25
	5	10.46	1.89	2.5E+02	10.12	1.81	2.9E+02	-3.27
	6	10.69	1.92	2.5E+02	10.34	1.83	2.9E+02	-3.31
	7	10.31	1.87	2.6E+02	9.98	1.87	2.9E+02	-3.20
	8	10.56	1.89	2.5E+02	10.22	1.87	2.8E+02	-3.21
	9	10.49	1.90	2.5E+02	10.16	1.88	2.8E+02	-3.21
	10	10.65	1.90	2.5E+02	10.30	1.89	2.8E+02	-3.26
	11	10.44	1.87	2.5E+02	10.11	1.84	2.8E+02	-3.19
	12	10.59	1.93	2.6E+02	10.24	1.95	2.9E+02	-3.28
	13	10.59	1.89	2.5E+02	10.24	1.84	2.8E+02	-3.29
	14	10.64	1.92	2.5E+02	10.29	1.88	2.9E+02	-3.33
	15	10.27	1.85	2.5E+02	9.95	1.82	2.9E+02	-3.16
	16	10.48	1.90	2.5E+02	10.13	1.98	2.8E+02	-3.29
	17	10.63	1.91	2.5E+02	10.28	1.88	2.8E+02	-3.31
	18	10.48	1.92	2.5E+02	10.14	1.99	2.8E+02	-3.28
	19	10.58	1.93	2.5E+02	10.24	1.89	2.8E+02	-3.20
	20	10.58	2.00	2.5E+02	10.24	1.91	2.8E+02	-3.17
	21	10.52	2.04	2.5E+02	10.19	1.87	2.9E+02	-3.13
	22	10.27	1.91	2.5E+02	9.96	1.83	2.8E+02	-3.02
	23	10.57	1.95	2.5E+02	10.23	1.88	2.9E+02	-3.16
	24	10.55	1.98	2.5E+02	10.22	1.86	2.8E+02	-3.13
	25	10.49	1.95	2.5E+02	10.16	1.84	2.8E+02	-3.14
	26	10.66	1.97	2.5E+02	10.32	1.86	2.8E+02	-3.17
	27	10.60	1.95	2.5E+02	10.26	1.84	2.8E+02	-3.17
	28	10.44	1.92	2.5E+02	10.11	1.82	2.8E+02	-3.13
	29	10.57	1.98	2.6E+02	10.23	1.86	2.9E+02	-3.21
	30	10.48	2.01	2.5E+02	10.15	1.82	2.9E+02	-3.12
	31	10.50	1.92	2.5E+02	10.17	1.84	2.9E+02	-3.16
	32	10.64	1.99	2.5E+02	10.30	1.85	2.8E+02	-3.21
	33	10.48	1.90	2.6E+02	10.15	1.86	2.9E+02	-3.19
	34	10.59	2.05	2.6E+02	10.25	1.87	2.9E+02	-3.20
	35	10.48	1.91	2.6E+02	10.16	1.80	2.9E+02	-3.08
	36	10.38	1.95	2.5E+02	10.05	1.80	2.9E+02	-3.15
	37	10.56	1.93	2.6E+02	10.22	1.85	2.9E+02	-3.23
	38	10.50	1.87	2.5E+02	10.17	1.81	2.8E+02	-3.14
C	39	10.80	1.92	2.5E+02	10.45	1.80	2.8E+02	-3.22
	40	10.57	1.91	2.5E+02	10.24	1.82	2.8E+02	-3.11
	41	10.42	1.82	2.5E+02	10.10	1.74	2.8E+02	-3.08
	42	10.57	1.91	2.5E+02	10.23	1.77	2.9E+02	-3.21
	43	10.59	1.90	2.5E+02	10.25	1.78	2.8E+02	-3.17
	44	10.60	1.94	2.6E+02	10.26	1.86	2.9E+02	-3.21
	45	10.51	1.90	2.5E+02	10.18	1.81	2.8E+02	-3.13
	46	10.66	1.92	2.5E+02	10.32	1.82	2.9E+02	-3.19
	47	10.61	1.94	2.5E+02	10.27	1.87	2.8E+02	-3.22
	48	10.67	1.93	2.5E+02	10.33	1.85	2.8E+02	-3.19
	49	10.69	1.93	2.5E+02	10.35	1.73	2.8E+02	-3.18
	50	10.43	1.89	2.5E+02	10.10	1.77	2.8E+02	-3.15
	51	10.59	1.86	2.5E+02	10.25	1.80	2.8E+02	-3.14
	52	10.43	1.83	2.5E+02	10.10	1.73	2.8E+02	-3.15
	53	10.45	1.86	2.5E+02	10.12	1.76	2.8E+02	-3.16
	54	10.58	1.91	2.5E+02	10.23	1.79	2.9E+02	-3.29
	55	10.59	1.93	2.5E+02	10.25	1.85	2.8E+02	-3.19
	56	10.57	1.93	2.5E+02	10.24	1.86	2.8E+02	-3.18
	57	10.56	1.87	2.5E+02	10.23	1.84	2.8E+02	-3.12
	58	10.61	1.92	2.5E+02	10.28	1.88	2.8E+02	-3.15
	59	10.53	1.92	2.5E+02	10.20	1.86	2.7E+02	-3.16
	60	10.62	1.97	2.6E+02	10.28	1.88	2.9E+02	-3.20
	61	10.60	1.92	2.6E+02	10.26	1.89	2.9E+02	-3.21
	62	10.58	1.91	2.5E+02	10.24	1.88	2.8E+02	-3.20
	63	10.62	1.89	2.5E+02	10.28	1.84	2.8E+02	-3.16
	64	10.67	1.90	2.5E+02	10.33	1.88	2.8E+02	-3.17
	65	10.50	1.90	2.6E+02	10.18	1.87	2.9E+02	-3.13
	66	10.48	1.89	2.5E+02	10.15	1.86	2.9E+02	-3.13
	67	10.45	1.88	2.6E+02	10.13	1.89	2.9E+02	-3.14
	68	10.55	1.89	2.6E+02	10.22	1.88	2.9E+02	-3.15
	69	10.39	1.82	2.6E+02	10.06	1.83	2.9E+02	-3.12
	70	10.48	1.84	2.5E+02	10.15	1.85	2.8E+02	-3.13
	71	10.59	2.18	2.5E+02	10.25	1.88	2.9E+02	-3.22
	72	10.62	1.88	2.5E+02	10.27	1.88	2.9E+02	-3.27
	73	10.58	1.88	2.5E+02	10.24	1.86	2.8E+02	-3.23
	74	10.40	1.85	2.5E+02	10.08	1.82	2.8E+02	-3.13
	75	10.52	1.86	2.5E+02	10.18	1.83	2.8E+02	-3.18
	76	10.43	1.85	2.5E+02	10.10	1.83	2.8E+02	-3.14
	77	10.61	1.91	2.6E+02	10.27	1.87	2.9E+02	-3.21

AEC-Q200 Summary of Test Results

	Murata P/N: GCJ32ER71E106KA18
Manufacturing Location: Philippine Manufacturing Co. of Murata	Lot No: A,B,C
Date before test: 2025/3/14	Date after test: 2025/5/8

#8 - High Temperature Operating Life

Test conditions : 1000hr ,125deg C , 2WV

No. of samples:	77	Initial readings			Final readings			
No. of lots:	3	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Change in capacitance %
Spec limits	lower	9.00		5.0E+01			0.0E+00	-10.00
	upper	11.00	5.00			5.00		10.00
Measurement Statistics	mean	10.557	2.295	2.4E+02	10.223	2.388	3.6E+02	-3.162
	maximum	10.98	2.41	2.6E+02	10.63	2.63	4.1E+02	-2.60
	minimum	10.08	2.14	2.3E+02	9.73	2.24	3.4E+02	-4.64
	standard deviation	0.2118	0.0582	5.6E+00	0.2085	0.0739	1.4E+01	0.3790

Test Data

Lot No	Sample	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Change in capacitance %
A	1	10.74	2.36	2.4E+02	10.31	2.47	3.9E+02	-4.06
	2	10.79	2.38	2.4E+02	10.41	2.48	3.8E+02	-3.55
	3	10.75	2.35	2.4E+02	10.40	2.47	3.6E+02	-3.27
	4	10.82	2.37	2.4E+02	10.47	2.47	3.6E+02	-3.22
	5	10.86	2.40	2.4E+02	10.53	2.50	3.6E+02	-3.10
	6	10.72	2.36	2.4E+02	10.39	2.48	3.6E+02	-3.06
	7	10.80	2.39	2.4E+02	10.46	2.48	3.6E+02	-3.09
	8	10.89	2.37	2.4E+02	10.56	2.48	3.5E+02	-3.04
	9	10.80	2.34	2.3E+02	10.48	2.46	3.5E+02	-2.94
	10	10.94	2.37	2.3E+02	10.62	2.47	3.5E+02	-2.93
	11	10.82	2.36	2.4E+02	10.50	2.46	3.5E+02	-2.99
	12	10.78	2.37	2.4E+02	10.46	2.46	3.5E+02	-2.93
	13	10.60	2.31	2.4E+02	10.29	2.42	3.5E+02	-2.91
	14	10.85	2.39	2.4E+02	10.52	2.55	3.5E+02	-3.00
	15	10.72	2.38	2.4E+02	10.40	2.51	3.6E+02	-2.97
	16	10.62	2.36	2.4E+02	10.30	2.45	3.6E+02	-3.00
	17	10.88	2.41	2.4E+02	10.54	2.52	3.6E+02	-3.17
	18	10.75	2.34	2.3E+02	10.41	2.50	3.5E+02	-3.19
	19	10.74	2.35	2.5E+02	10.35	2.50	3.8E+02	-3.67
	20	10.76	2.35	2.4E+02	10.41	2.61	3.7E+02	-3.25
	21	10.67	2.39	2.4E+02	10.34	2.55	3.7E+02	-3.10
	22	10.77	2.38	2.4E+02	10.43	2.51	3.6E+02	-3.13
	23	10.56	2.34	2.5E+02	10.24	2.44	3.7E+02	-2.99
	24	10.80	2.34	2.3E+02	10.49	2.46	3.5E+02	-2.87
	25	10.89	2.36	2.4E+02	10.57	2.46	3.5E+02	-2.94
	26	10.63	2.32	2.4E+02	10.31	2.41	3.5E+02	-2.95
	27	10.81	2.35	2.4E+02	10.50	2.45	3.5E+02	-2.90
	28	10.73	2.35	2.4E+02	10.43	2.46	3.5E+02	-2.88
	29	10.79	2.34	2.4E+02	10.49	2.44	3.5E+02	-2.78
	30	10.77	2.36	2.3E+02	10.48	2.48	3.5E+02	-2.77
	31	10.75	2.35	2.4E+02	10.45	2.48	3.5E+02	-2.79
	32	10.65	2.36	2.4E+02	10.35	2.41	3.5E+02	-2.81
	33	10.80	2.33	2.3E+02	10.50	2.43	3.4E+02	-2.80
	34	10.76	2.36	2.3E+02	10.46	2.46	3.5E+02	-2.80
	35	10.57	2.31	2.6E+02	10.26	2.40	3.8E+02	-2.93
	36	10.69	2.35	2.4E+02	10.37	2.52	3.5E+02	-2.98
	37	10.77	2.31	2.4E+02	10.34	2.49	3.8E+02	-4.06
	38	10.82	2.35	2.4E+02	10.43	2.49	3.7E+02	-3.61
	39	10.69	2.33	2.5E+02	10.32	2.47	3.8E+02	-3.41
	40	10.84	2.34	2.4E+02	10.47	2.49	3.7E+02	-3.39
	41	10.67	2.31	2.4E+02	10.31	2.43	3.7E+02	-3.34
	42	10.80	2.33	2.4E+02	10.45	2.45	3.6E+02	-3.26
	43	10.70	2.31	2.4E+02	10.36	2.40	3.6E+02	-3.21
	44	10.98	2.37	2.4E+02	10.63	2.46	3.5E+02	-3.23
	45	10.61	2.30	2.3E+02	10.28	2.41	3.5E+02	-3.09
	46	10.85	2.33	2.3E+02	10.51	2.42	3.4E+02	-3.10
	47	10.76	2.33	2.4E+02	10.43	2.43	3.5E+02	-3.10
	48	10.86	2.38	2.3E+02	10.52	2.46	3.5E+02	-3.06
	49	10.84	2.37	2.3E+02	10.51	2.46	3.5E+02	-3.04
	50	10.27	2.14	2.4E+02	9.97	2.24	3.7E+02	-2.93
	51	10.77	2.35	2.4E+02	10.44	2.45	3.5E+02	-3.09
	52	10.88	2.37	2.4E+02	10.54	2.45	3.6E+02	-3.17
	53	10.81	2.36	2.3E+02	10.47	2.45	3.5E+02	-3.07
	54	10.80	2.34	2.3E+02	10.45	2.44	3.5E+02	-3.22
	55	10.82	2.35	2.4E+02	10.39	2.45	3.8E+02	-4.05
	56	10.68	2.34	2.4E+02	10.31	2.45	3.8E+02	-3.51
	57	10.66	2.30	2.4E+02	10.32	2.44	3.6E+02	-3.23
	58	10.74	2.35	2.5E+02	10.39	2.46	3.7E+02	-3.21
	59	10.68	2.34	2.4E+02	10.35	2.48	3.7E+02	-3.12
	60	10.64	2.31	2.4E+02	10.32	2.42	3.6E+02	-3.05
	61	10.74	2.32	2.4E+02	10.43	2.44	3.5E+02	-2.91
	62	10.85	2.37	2.4E+02	10.53	2.47	3.5E+02	-2.89
	63	10.67	2.33	2.4E+02	10.36	2.45	3.5E+02	-2.93
	64	10.69	2.34	2.4E+02	10.39	2.46	3.4E+02	-2.82
	65	10.77	2.35	2.4E+02	10.46	2.45	3.5E+02	-2.91
	66	10.77	2.35	2.4E+02	10.46	2.47	3.5E+02	-2.87
	67	10.76	2.35	2.4E+02	10.45	2.47	3.5E+02	-2.88
	68	10.62	2.33	2.4E+02	10.32	2.45	3.5E+02	-2.82
	69	10.75	2.36	2.4E+02	10.45	2.50	3.5E+02	-2.79
	70	10.84	2.36	2.3E+02	10.54	2.53	3.4E+02	-2.84
	71	10.76	2.35	2.4E+02	10.45	2.56	3.5E+02	-2.89
	72	10.70	2.31	2.4E+02	10.37	2.55	3.6E+02	-3.14
	73	10.77	2.36	2.4E+02	10.27	2.50	4.0E+02	-4.64
	74	10.61	2.29	2.4E+02	10.17	2.40	3.8E+02	-4.15
	75	10.73	2.32	2.4E+02	10.31	2.41	3.8E+02	-3.93
	76	10.66	2.31	2.4E+02	10.26	2.39	3.8E+02	-3.75
	77	10.71	2.34	2.3E+02	10.30	2.38	3.7E+02	-3.84

AEC-Q200 Summary of Test Results

	Murata P/N: GCJ32ER71E106KA18
Manufacturing Location: Philippine Manufacturing Co. of Murata	Lot No: A,B,C
Date before test: 2025/3/14	Date after test: 2025/5/8

#8 - High Temperature Operating Life

Test conditions : 1000hr ,125deg C , 2WV

	1	10.74	2.30	2.4E+02	10.34	2.37	3.7E+02	-3.67
	2	10.34	2.28	2.5E+02	10.00	2.35	3.7E+02	-3.30
	3	10.67	2.34	2.4E+02	10.34	2.41	3.6E+02	-3.16
	4	10.61	2.36	2.5E+02	10.29	2.43	3.7E+02	-3.06
	5	10.74	2.35	2.4E+02	10.41	2.44	3.6E+02	-3.02
	6	10.54	2.32	2.5E+02	10.23	2.40	3.7E+02	-2.89
	7	10.53	2.31	2.5E+02	10.23	2.39	3.6E+02	-2.91
	8	10.23	2.22	2.4E+02	9.95	2.29	3.5E+02	-2.78
	9	10.57	2.29	2.4E+02	10.28	2.36	3.4E+02	-2.81
	10	10.67	2.31	2.4E+02	10.37	2.38	3.4E+02	-2.84
	11	10.63	2.34	2.5E+02	10.32	2.40	3.6E+02	-2.88
	12	10.67	2.33	2.5E+02	10.37	2.39	3.6E+02	-2.84
	13	10.65	2.33	2.5E+02	10.34	2.40	3.6E+02	-2.86
	14	10.72	2.31	2.3E+02	10.43	2.39	3.4E+02	-2.75
	15	10.52	2.31	2.5E+02	10.23	2.37	3.5E+02	-2.78
	16	10.77	2.33	2.3E+02	10.47	2.41	3.4E+02	-2.79
	17	10.49	2.28	2.4E+02	10.18	2.35	3.5E+02	-2.90
	18	10.58	2.31	2.4E+02	10.26	2.38	3.5E+02	-3.04
	19	10.71	2.34	2.4E+02	10.29	2.41	4.0E+02	-3.93
	20	10.58	2.31	2.4E+02	10.22	2.38	3.8E+02	-3.47
	21	10.33	2.28	2.5E+02	9.99	2.34	3.7E+02	-3.26
	22	10.14	2.21	2.4E+02	9.84	2.26	3.6E+02	-3.04
	23	10.50	2.33	2.5E+02	10.19	2.37	3.8E+02	-2.97
	24	10.49	2.33	2.5E+02	10.16	2.38	3.7E+02	-3.10
	25	10.47	2.28	2.5E+02	10.14	2.34	3.7E+02	-3.07
	26	10.48	2.28	2.3E+02	10.18	2.33	3.4E+02	-2.89
	27	10.37	2.23	2.3E+02	10.08	2.30	3.4E+02	-2.84
	28	10.85	2.37	2.4E+02	10.53	2.41	3.5E+02	-2.99
	29	10.67	2.40	2.4E+02	10.35	2.43	3.6E+02	-2.94
	30	10.30	2.32	2.5E+02	10.02	2.34	3.6E+02	-2.75
	31	10.56	2.34	2.5E+02	10.25	2.38	3.6E+02	-2.92
	32	10.81	2.35	2.4E+02	10.49	2.40	3.5E+02	-2.93
	33	10.59	2.35	2.5E+02	10.28	2.40	3.6E+02	-2.92
	34	10.76	2.32	2.4E+02	10.45	2.38	3.4E+02	-2.90
	35	10.54	2.35	2.4E+02	10.24	2.40	3.6E+02	-2.86
	36	10.57	2.33	2.4E+02	10.26	2.39	3.5E+02	-2.99
	37	10.33	2.24	2.5E+02	9.94	2.32	3.9E+02	-3.82
	38	10.46	2.27	2.4E+02	10.11	2.35	3.7E+02	-3.36
B	39	10.63	2.29	2.4E+02	10.28	2.37	3.6E+02	-3.24
	40	10.33	2.25	2.5E+02	10.01	2.33	3.7E+02	-3.16
	41	10.73	2.35	2.5E+02	10.38	2.43	3.8E+02	-3.27
	42	10.90	2.33	2.4E+02	10.55	2.41	3.5E+02	-3.17
	43	10.50	2.32	2.5E+02	10.18	2.39	3.7E+02	-3.06
	44	10.45	2.29	2.6E+02	10.14	2.37	3.8E+02	-3.01
	45	10.58	2.34	2.6E+02	10.25	2.41	3.8E+02	-3.11
	46	10.27	2.25	2.4E+02	9.98	2.33	3.5E+02	-2.85
	47	10.54	2.31	2.5E+02	10.22	2.40	3.6E+02	-3.00
	48	10.72	2.34	2.5E+02	10.40	2.42	3.7E+02	-2.97
	49	10.64	2.34	2.4E+02	10.33	2.43	3.6E+02	-2.95
	50	10.60	2.32	2.5E+02	10.28	2.40	3.7E+02	-3.03
	51	10.71	2.35	2.4E+02	10.39	2.42	3.6E+02	-2.91
	52	10.59	2.31	2.4E+02	10.29	2.40	3.5E+02	-2.78
	53	10.86	2.34	2.4E+02	10.54	2.42	3.5E+02	-3.01
	54	10.54	2.30	2.5E+02	10.22	2.38	3.6E+02	-3.02
	55	10.65	2.31	2.5E+02	10.21	2.41	3.9E+02	-4.14
	56	10.44	2.28	2.4E+02	10.06	2.42	3.9E+02	-3.59
	57	10.48	2.25	2.5E+02	10.12	2.36	3.9E+02	-3.44
	58	10.32	2.23	2.4E+02	10.00	2.33	3.6E+02	-3.14
	59	10.75	2.33	2.5E+02	10.39	2.42	3.7E+02	-3.30
	60	10.64	2.32	2.5E+02	10.30	2.42	3.7E+02	-3.18
	61	10.56	2.31	2.5E+02	10.22	2.40	3.7E+02	-3.20
	62	10.62	2.32	2.5E+02	10.29	2.40	3.8E+02	-3.11
	63	10.63	2.26	2.3E+02	10.31	2.35	3.5E+02	-3.01
	64	10.85	2.33	2.4E+02	10.51	2.42	3.6E+02	-3.14
	65	10.68	2.33	2.5E+02	10.35	2.41	3.7E+02	-3.10
	66	10.89	2.34	2.3E+02	10.56	2.42	3.5E+02	-3.01
	67	10.31	2.25	2.4E+02	10.02	2.34	3.5E+02	-2.82
	68	10.73	2.29	2.4E+02	10.41	2.39	3.4E+02	-2.97
	69	10.84	2.33	2.4E+02	10.52	2.44	3.5E+02	-2.97
	70	10.79	2.34	2.4E+02	10.45	2.44	3.6E+02	-3.14
	71	10.53	2.24	2.3E+02	10.22	2.35	3.4E+02	-2.93
	72	10.78	2.35	2.4E+02	10.44	2.45	3.7E+02	-3.24
	73	10.54	2.30	2.5E+02	10.06	2.42	4.1E+02	-4.49
	74	10.66	2.30	2.4E+02	10.23	2.40	3.8E+02	-3.98
	75	10.47	2.26	2.4E+02	10.06	2.35	3.8E+02	-3.93
	76	10.56	2.34	2.4E+02	10.18	2.42	3.8E+02	-3.65
	77	10.41	2.26	2.5E+02	10.04	2.35	3.8E+02	-3.57

AEC-Q200 Summary of Test Results

	Murata P/N: GCJ32ER71E106KA18
Manufacturing Location: Philippine Manufacturing Co. of Murata	Lot No: A,B,C
Date before test: 2025/3/14	Date after test: 2025/5/8

#8 - High Temperature Operating Life

Test conditions : 1000hr ,125deg C , 2WV

	1	10.44	2.26	2.5E+02	10.02	2.33	4.0E+02	-4.10
	2	10.23	2.20	2.4E+02	9.87	2.28	3.7E+02	-3.51
	3	10.33	2.21	2.4E+02	9.98	2.29	3.7E+02	-3.32
	4	10.53	2.28	2.5E+02	10.17	2.35	3.7E+02	-3.38
	5	10.31	2.23	2.5E+02	9.98	2.31	3.6E+02	-3.16
	6	10.35	2.23	2.5E+02	10.02	2.31	3.6E+02	-3.18
	7	10.33	2.22	2.4E+02	10.00	2.30	3.6E+02	-3.16
	8	10.49	2.26	2.4E+02	10.17	2.33	3.6E+02	-3.10
	9	10.39	2.26	2.5E+02	10.06	2.33	3.6E+02	-3.12
	10	10.28	2.20	2.5E+02	9.96	2.28	3.6E+02	-3.07
	11	10.34	2.24	2.5E+02	10.02	2.31	3.6E+02	-3.07
	12	10.18	2.21	2.4E+02	9.87	2.28	3.6E+02	-3.08
	13	10.15	2.19	2.5E+02	9.83	2.26	3.6E+02	-3.09
	14	10.48	2.27	2.4E+02	10.16	2.35	3.5E+02	-3.03
	15	10.39	2.26	2.5E+02	10.07	2.33	3.7E+02	-3.13
	16	10.37	2.24	2.4E+02	10.06	2.32	3.6E+02	-3.04
	17	10.32	2.21	2.3E+02	10.00	2.30	3.5E+02	-3.09
	18	10.27	2.20	2.3E+02	9.94	2.30	3.5E+02	-3.20
	19	10.33	2.24	2.5E+02	9.96	2.31	3.8E+02	-3.60
	20	10.31	2.22	2.5E+02	9.98	2.29	3.7E+02	-3.22
	21	10.26	2.22	2.4E+02	9.95	2.29	3.6E+02	-3.03
	22	10.44	2.26	2.4E+02	10.13	2.35	3.6E+02	-3.00
	23	10.40	2.26	2.4E+02	10.11	2.33	3.6E+02	-2.87
	24	10.08	2.22	2.5E+02	9.80	2.27	3.7E+02	-2.79
	25	10.21	2.23	2.4E+02	9.92	2.29	3.6E+02	-2.86
	26	10.17	2.21	2.4E+02	9.89	2.26	3.5E+02	-2.78
	27	10.44	2.28	2.5E+02	10.14	2.34	3.6E+02	-2.81
	28	10.50	2.27	2.5E+02	10.19	2.33	3.6E+02	-2.88
	29	10.49	2.28	2.5E+02	10.20	2.34	3.6E+02	-2.83
	30	10.39	2.24	2.4E+02	10.10	2.31	3.5E+02	-2.77
	31	10.21	2.20	2.5E+02	9.93	2.27	3.5E+02	-2.73
	32	10.36	2.23	2.4E+02	10.08	2.30	3.4E+02	-2.69
	33	10.27	2.23	2.4E+02	10.00	2.29	3.5E+02	-2.64
	34	10.10	2.21	2.5E+02	9.84	2.27	3.6E+02	-2.60
	35	10.41	2.24	2.4E+02	10.12	2.31	3.5E+02	-2.75
	36	10.27	2.21	2.4E+02	9.97	2.28	3.5E+02	-2.94
	37	10.56	2.23	2.3E+02	10.11	2.34	3.8E+02	-4.30
	38	10.27	2.18	2.5E+02	9.87	2.28	3.9E+02	-3.86
C	39	10.39	2.23	2.4E+02	10.02	2.33	3.8E+02	-3.59
	40	10.23	2.17	2.4E+02	9.88	2.28	3.7E+02	-3.43
	41	10.50	2.26	2.4E+02	10.13	2.36	3.8E+02	-3.54
	42	10.17	2.19	2.5E+02	9.82	2.28	3.7E+02	-3.41
	43	10.44	2.23	2.5E+02	10.09	2.33	3.7E+02	-3.39
	44	10.33	2.22	2.5E+02	9.98	2.31	3.7E+02	-3.40
	45	10.27	2.21	2.5E+02	9.92	2.31	3.6E+02	-3.40
	46	10.41	2.23	2.4E+02	10.07	2.33	3.6E+02	-3.32
	47	10.45	2.24	2.4E+02	10.11	2.33	3.5E+02	-3.29
	48	10.60	2.28	2.4E+02	10.25	2.63	3.7E+02	-3.28
	49	10.44	2.24	2.4E+02	10.09	2.33	3.6E+02	-3.34
	50	10.40	2.24	2.4E+02	10.07	2.33	3.6E+02	-3.24
	51	10.36	2.22	2.4E+02	10.02	2.34	3.6E+02	-3.20
	52	10.22	2.22	2.4E+02	9.90	2.31	3.6E+02	-3.16
	53	10.33	2.23	2.4E+02	10.00	2.32	3.6E+02	-3.18
	54	10.22	2.20	2.4E+02	9.89	2.29	3.6E+02	-3.23
	55	10.31	2.20	2.5E+02	9.88	2.32	4.0E+02	-4.14
	56	10.10	2.18	2.5E+02	9.73	2.26	3.8E+02	-3.66
	57	10.40	2.25	2.5E+02	10.04	2.33	3.8E+02	-3.42
	58	10.34	2.24	2.4E+02	10.01	2.33	3.7E+02	-3.15
	59	10.39	2.23	2.4E+02	10.07	2.31	3.6E+02	-3.05
	60	10.18	2.19	2.4E+02	9.88	2.27	3.5E+02	-2.93
	61	10.34	2.24	2.4E+02	10.04	2.32	3.6E+02	-2.93
	62	10.35	2.24	2.5E+02	10.04	2.32	3.7E+02	-2.97
	63	10.59	2.30	2.5E+02	10.27	2.38	3.7E+02	-3.01
	64	10.25	2.21	2.4E+02	9.97	2.30	3.5E+02	-2.76
	65	10.37	2.25	2.4E+02	10.08	2.34	3.6E+02	-2.85
	66	10.25	2.19	2.5E+02	9.96	2.28	3.5E+02	-2.82
	67	10.36	2.23	2.4E+02	10.07	2.31	3.5E+02	-2.85
	68	10.38	2.24	2.4E+02	10.09	2.31	3.5E+02	-2.81
	69	10.44	2.25	2.4E+02	10.15	2.34	3.6E+02	-2.80
	70	10.23	2.21	2.5E+02	9.94	2.29	3.5E+02	-2.83
	71	10.14	2.19	2.5E+02	9.86	2.28	3.6E+02	-2.68
	72	10.38	2.24	2.4E+02	10.07	2.32	3.5E+02	-3.00
	73	10.55	2.28	2.4E+02	10.06	2.39	4.1E+02	-4.62
	74	10.29	2.24	2.4E+02	9.87	2.35	4.0E+02	-4.13
	75	10.40	2.23	2.4E+02	9.98	2.34	3.8E+02	-4.01
	76	10.41	2.27	2.4E+02	10.01	2.36	3.7E+02	-3.89
	77	10.46	2.25	2.4E+02	10.07	2.34	3.7E+02	-3.78

AEC-Q200 Summary of Test Results

	Murata P/N: GCJ32ER71E106KA18
Manufacturing Location: Philippine Manufacturing Co. of Murata	Lot No: A,B,C
Date before test: 2025/3/7	Date after test: 2025/5/7

#7 - Humidity Bias

Test conditions : 1000hr , 85deg C / 85% RH , 1WV

No. of samples:	77	Initial readings			Final readings			
No. of lots:	3	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Change in capacitance %
Spec limits	lower	9.00		5.0E+01			0.0E+00	-12.50
	upper	11.00	5.00			5.00		12.50
Measurement Statistics	mean	10.567	2.309	2.4E+02	9.904	2.626	5.1E+02	-6.275
	maximum	10.98	2.41	2.6E+02	10.27	2.87	5.5E+02	-5.82
	minimum	10.17	2.19	2.3E+02	9.56	2.47	4.8E+02	-6.75
	standard deviation	0.2152	0.0522	4.8E+00	0.1861	0.0651	1.3E+01	0.1995

Test Data

Lot No	Sample	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Change in capacitance %
A	1	10.76	2.34	2.4E+02	10.03	2.69	5.2E+02	-6.75
	2	10.77	2.34	2.4E+02	10.07	2.68	5.1E+02	-6.50
	3	10.65	2.33	2.4E+02	9.97	2.66	5.2E+02	-6.38
	4	10.74	2.39	2.5E+02	10.04	2.69	5.2E+02	-6.55
	5	10.75	2.37	2.4E+02	10.06	2.68	5.1E+02	-6.42
	6	10.71	2.35	2.4E+02	10.02	2.64	5.1E+02	-6.40
	7	10.57	2.28	2.4E+02	9.92	2.59	4.9E+02	-6.16
	8	10.86	2.37	2.4E+02	10.17	2.66	5.0E+02	-6.40
	9	10.72	2.38	2.5E+02	10.03	2.64	5.1E+02	-6.48
	10	10.93	2.35	2.4E+02	10.22	2.64	4.9E+02	-6.49
	11	10.77	2.34	2.4E+02	10.07	2.63	5.0E+02	-6.50
	12	10.87	2.39	2.5E+02	10.16	2.69	5.1E+02	-6.52
	13	10.82	2.35	2.4E+02	10.13	2.65	5.0E+02	-6.40
	14	10.84	2.38	2.4E+02	10.14	2.68	5.0E+02	-6.43
	15	10.72	2.34	2.4E+02	10.03	2.62	5.1E+02	-6.44
	16	10.61	2.33	2.5E+02	9.94	2.61	5.2E+02	-6.35
	17	10.79	2.37	2.5E+02	10.09	2.66	5.2E+02	-6.49
	18	10.90	2.38	2.4E+02	10.19	2.71	5.1E+02	-6.55
	19	10.76	2.36	2.4E+02	10.06	2.85	5.1E+02	-6.54
	20	10.68	2.36	2.5E+02	9.97	2.61	5.3E+02	-6.67
	21	10.74	2.34	2.4E+02	10.07	2.87	5.1E+02	-6.27
	22	10.65	2.34	2.4E+02	9.96	2.74	5.1E+02	-6.56
	23	10.82	2.32	2.4E+02	10.12	2.73	5.0E+02	-6.45
	24	10.83	2.34	2.4E+02	10.13	2.71	4.9E+02	-6.46
	25	10.77	2.33	2.4E+02	10.09	2.68	4.9E+02	-6.31
	26	10.86	2.36	2.4E+02	10.16	2.68	4.9E+02	-6.51
	27	10.95	2.36	2.4E+02	10.22	2.73	4.9E+02	-6.63
	28	10.84	2.40	2.5E+02	10.11	2.87	5.2E+02	-6.69
	29	10.81	2.35	2.4E+02	10.11	2.67	5.0E+02	-6.47
	30	10.74	2.37	2.4E+02	10.06	2.67	5.1E+02	-6.32
	31	10.86	2.37	2.4E+02	10.17	2.68	4.9E+02	-6.40
	32	10.85	2.35	2.4E+02	10.15	2.72	5.0E+02	-6.42
	33	10.58	2.30	2.4E+02	9.93	2.78	5.0E+02	-6.14
	34	10.87	2.39	2.4E+02	10.16	2.72	5.1E+02	-6.53
	35	10.67	2.33	2.4E+02	10.00	2.65	5.1E+02	-6.31
	36	10.77	2.33	2.4E+02	10.08	2.64	5.1E+02	-6.39
	37	10.86	2.36	2.4E+02	10.13	2.70	5.2E+02	-6.67
	38	10.87	2.36	2.4E+02	10.16	2.70	5.2E+02	-6.56
	39	10.70	2.32	2.4E+02	10.01	2.65	5.1E+02	-6.41
	40	10.81	2.35	2.4E+02	10.11	2.68	5.1E+02	-6.47
	41	10.81	2.36	2.4E+02	10.11	2.68	5.1E+02	-6.45
	42	10.77	2.34	2.4E+02	10.09	2.67	5.0E+02	-6.34
	43	10.76	2.35	2.4E+02	10.08	2.65	4.9E+02	-6.35
	44	10.67	2.34	2.5E+02	9.98	2.64	5.1E+02	-6.53
	45	10.77	2.35	2.4E+02	10.09	2.65	5.0E+02	-6.39
	46	10.88	2.36	2.4E+02	10.17	2.66	5.1E+02	-6.55
	47	10.78	2.35	2.4E+02	10.10	2.65	5.0E+02	-6.27
	48	10.87	2.29	2.4E+02	10.21	2.65	5.0E+02	-6.11
	49	10.87	2.35	2.4E+02	10.16	2.64	5.0E+02	-6.49
	50	10.70	2.31	2.4E+02	10.04	2.63	5.0E+02	-6.11
	51	10.81	2.36	2.5E+02	10.11	2.71	5.1E+02	-6.45
	52	10.70	2.30	2.4E+02	10.03	2.60	5.0E+02	-6.30
	53	10.80	2.37	2.4E+02	10.10	2.67	5.2E+02	-6.50
	54	10.67	2.30	2.4E+02	10.01	2.65	5.1E+02	-6.26
	55	10.79	2.38	2.5E+02	10.07	2.72	5.3E+02	-6.66
	56	10.84	2.38	2.5E+02	10.12	2.72	5.3E+02	-6.70
	57	10.77	2.36	2.4E+02	10.09	2.70	5.2E+02	-6.33
	58	10.77	2.40	2.4E+02	10.09	2.73	5.2E+02	-6.37
	59	10.68	2.34	2.4E+02	10.01	2.68	5.1E+02	-6.26
	60	10.73	2.35	2.5E+02	10.04	2.68	5.2E+02	-6.40
	61	10.79	2.36	2.5E+02	10.10	2.70	5.1E+02	-6.44
	62	10.67	2.32	2.4E+02	10.00	2.65	5.0E+02	-6.32
	63	10.77	2.39	2.5E+02	10.08	2.70	5.2E+02	-6.45
	64	10.58	2.31	2.5E+02	9.92	2.61	5.0E+02	-6.23
	65	10.84	2.37	2.4E+02	10.15	2.68	5.0E+02	-6.35
	66	10.66	2.35	2.5E+02	9.98	2.66	5.1E+02	-6.32
	67	10.72	2.35	2.5E+02	10.04	2.66	5.1E+02	-6.33
	68	10.89	2.39	2.4E+02	10.20	2.69	5.0E+02	-6.38
	69	10.71	2.36	2.4E+02	10.03	2.64	5.0E+02	-6.33
	70	10.98	2.41	2.4E+02	10.27	2.68	5.1E+02	-6.48
	71	10.79	2.38	2.4E+02	10.09	2.66	5.1E+02	-6.47
	72	10.81	2.39	2.3E+02	10.11	2.69	5.0E+02	-6.42
	73	10.60	2.29	2.5E+02	9.88	2.71	5.3E+02	-6.75
	74	10.84	2.36	2.4E+02	10.12	2.72	5.2E+02	-6.67
	75	10.88	2.36	2.4E+02	10.15	2.71	5.2E+02	-6.70
	76	10.68	2.28	2.3E+02	10.01	2.63	4.9E+02	-6.32
	77	10.88	2.35	2.4E+02	10.17	2.70	5.0E+02	-6.47

AEC-Q200 Summary of Test Results

	Murata P/N: GCJ32ER71E106KA18
Manufacturing Location: Philippine Manufacturing Co. of Murata	Lot No: A,B,C
Date before test: 2025/3/7	Date after test: 2025/5/7

#7 - Humidity Bias

Test conditions : 1000hr , 85deg C / 85% RH , 1WV

	1	10.55	2.31	2.4E+02	9.87	2.64	5.2E+02	-6.40
	2	10.81	2.33	2.4E+02	10.12	2.65	5.1E+02	-6.36
	3	10.65	2.32	2.5E+02	9.96	2.63	5.3E+02	-6.47
	4	10.44	2.28	2.5E+02	9.80	2.60	5.3E+02	-6.15
	5	10.49	2.31	2.5E+02	9.84	2.62	5.2E+02	-6.18
	6	10.66	2.30	2.4E+02	10.00	2.61	5.0E+02	-6.22
	7	10.69	2.38	2.5E+02	10.00	2.66	5.3E+02	-6.52
	8	10.60	2.33	2.4E+02	9.94	2.62	5.0E+02	-6.28
	9	10.82	2.35	2.4E+02	10.12	2.63	5.1E+02	-6.51
	10	10.76	2.34	2.4E+02	10.09	2.63	5.0E+02	-6.28
	11	10.75	2.37	2.4E+02	10.06	2.65	5.2E+02	-6.43
	12	10.68	2.37	2.4E+02	10.00	2.65	5.0E+02	-6.36
	13	10.68	2.33	2.4E+02	10.01	2.60	5.0E+02	-6.30
	14	10.72	2.35	2.5E+02	10.03	2.63	5.2E+02	-6.40
	15	10.57	2.32	2.5E+02	9.90	2.61	5.2E+02	-6.35
	16	10.60	2.35	2.5E+02	9.93	2.65	5.2E+02	-6.35
	17	10.79	2.34	2.3E+02	10.12	2.63	4.9E+02	-6.26
	18	10.79	2.39	2.4E+02	10.10	2.66	5.2E+02	-6.41
	19	10.77	2.36	2.5E+02	10.05	2.78	5.4E+02	-6.68
	20	10.79	2.39	2.5E+02	10.09	2.78	5.5E+02	-6.47
	21	10.67	2.32	2.4E+02	10.00	2.68	5.0E+02	-6.27
	22	10.58	2.33	2.5E+02	9.90	2.67	5.3E+02	-6.46
	23	10.81	2.35	2.3E+02	10.13	2.66	4.8E+02	-6.36
	24	10.40	2.26	2.5E+02	9.76	2.60	5.2E+02	-6.15
	25	10.23	2.23	2.4E+02	9.62	2.55	5.0E+02	-5.92
	26	10.56	2.34	2.5E+02	9.90	2.65	5.2E+02	-6.22
	27	10.32	2.27	2.5E+02	9.68	2.55	5.1E+02	-6.20
	28	10.44	2.30	2.5E+02	9.79	2.60	5.2E+02	-6.25
	29	10.31	2.26	2.4E+02	9.69	2.54	4.9E+02	-6.02
	30	10.41	2.30	2.4E+02	9.78	2.61	5.0E+02	-6.01
	31	10.76	2.38	2.4E+02	10.08	2.72	5.1E+02	-6.34
	32	10.66	2.35	2.5E+02	9.98	2.67	5.3E+02	-6.33
	33	10.49	2.31	2.5E+02	9.84	2.60	5.1E+02	-6.25
	34	10.74	2.33	2.4E+02	10.06	2.64	5.1E+02	-6.32
	35	10.71	2.30	2.3E+02	10.05	2.60	4.8E+02	-6.16
	36	10.65	2.35	2.4E+02	9.97	2.65	5.3E+02	-6.36
	37	10.62	2.33	2.4E+02	9.94	2.65	5.2E+02	-6.44
	38	10.27	2.27	2.5E+02	9.64	2.57	5.2E+02	-6.19
B	39	10.25	2.23	2.5E+02	9.62	2.55	5.2E+02	-6.16
	40	10.30	2.25	2.5E+02	9.67	2.55	5.2E+02	-6.13
	41	10.49	2.32	2.4E+02	9.85	2.62	5.2E+02	-6.13
	42	10.68	2.35	2.5E+02	10.00	2.65	5.2E+02	-6.39
	43	10.70	2.31	2.4E+02	10.04	2.63	5.0E+02	-6.19
	44	10.74	2.31	2.4E+02	10.08	2.61	5.0E+02	-6.13
	45	10.54	2.30	2.4E+02	9.89	2.60	4.9E+02	-6.16
	46	10.55	2.34	2.5E+02	9.90	2.65	5.2E+02	-6.23
	47	10.68	2.33	2.4E+02	10.02	2.63	5.1E+02	-6.23
	48	10.61	2.29	2.4E+02	9.95	2.58	5.0E+02	-6.27
	49	10.57	2.33	2.5E+02	9.91	2.64	5.2E+02	-6.24
	50	10.55	2.29	2.4E+02	9.90	2.59	5.1E+02	-6.15
	51	10.66	2.34	2.4E+02	10.00	2.64	5.2E+02	-6.20
	52	10.89	2.39	2.4E+02	10.20	2.66	5.1E+02	-6.38
	53	10.53	2.26	2.5E+02	9.90	2.64	5.3E+02	-5.95
	54	10.60	2.31	2.3E+02	9.95	2.60	4.9E+02	-6.17
	55	10.34	2.26	2.5E+02	9.69	2.63	5.3E+02	-6.25
	56	10.56	2.35	2.5E+02	9.88	2.70	5.5E+02	-6.43
	57	10.65	2.35	2.5E+02	9.97	2.67	5.3E+02	-6.38
	58	10.61	2.35	2.5E+02	9.93	2.63	5.5E+02	-6.38
	59	10.42	2.29	2.5E+02	9.77	2.57	5.3E+02	-6.22
	60	10.61	2.36	2.5E+02	9.93	2.64	5.3E+02	-6.44
	61	10.64	2.36	2.5E+02	9.95	2.64	5.3E+02	-6.42
	62	10.34	2.23	2.4E+02	9.72	2.53	4.9E+02	-6.00
	63	10.53	2.31	2.5E+02	9.87	2.60	5.1E+02	-6.19
	64	10.82	2.35	2.4E+02	10.15	2.64	4.9E+02	-6.24
	65	10.33	2.25	2.4E+02	9.72	2.56	5.0E+02	-5.94
	66	10.80	2.34	2.4E+02	10.13	2.64	4.9E+02	-6.27
	67	10.48	2.30	2.4E+02	9.83	2.59	4.9E+02	-6.21
	68	10.59	2.35	2.5E+02	9.92	2.62	5.2E+02	-6.36
	69	10.26	2.25	2.5E+02	9.65	2.55	5.0E+02	-5.99
	70	10.65	2.35	2.5E+02	9.97	2.62	5.1E+02	-6.44
	71	10.61	2.34	2.5E+02	9.94	2.67	5.2E+02	-6.38
	72	10.53	2.34	2.4E+02	9.87	2.65	5.1E+02	-6.28
	73	10.63	2.31	2.4E+02	9.96	2.68	5.2E+02	-6.38
	74	10.70	2.31	2.4E+02	10.00	2.67	5.1E+02	-6.48
	75	10.37	2.25	2.4E+02	9.72	2.58	5.2E+02	-6.33
	76	10.74	2.33	2.4E+02	10.05	2.67	5.1E+02	-6.47
	77	10.52	2.34	2.5E+02	9.84	2.67	5.3E+02	-6.45

AEC-Q200 Summary of Test Results

	Murata P/N: GCJ32ER71E106KA18
Manufacturing Location: Philippine Manufacturing Co. of Murata	Lot No: A,B,C
Date before test: 2025/3/7	Date after test: 2025/5/7

#7 - Humidity Bias

Test conditions : 1000hr , 85deg C / 85% RH , 1WV

	1	10.39	2.28	2.5E+02	9.72	2.62	5.4E+02	-6.48
	2	10.29	2.25	2.5E+02	9.64	2.61	5.4E+02	-6.36
	3	10.38	2.26	2.5E+02	9.73	2.59	5.3E+02	-6.25
	4	10.30	2.26	2.6E+02	9.66	2.58	5.4E+02	-6.23
	5	10.32	2.24	2.5E+02	9.68	2.56	5.3E+02	-6.23
	6	10.53	2.29	2.5E+02	9.86	2.61	5.3E+02	-6.38
	7	10.20	2.25	2.5E+02	9.61	2.58	5.3E+02	-5.86
	8	10.48	2.28	2.4E+02	9.83	2.59	5.1E+02	-6.18
	9	10.38	2.23	2.5E+02	9.73	2.49	5.1E+02	-6.28
	10	10.21	2.19	2.5E+02	9.58	2.47	5.0E+02	-6.20
	11	10.26	2.22	2.4E+02	9.66	2.53	4.9E+02	-5.93
	12	10.37	2.25	2.5E+02	9.72	2.56	5.2E+02	-6.24
	13	10.25	2.21	2.5E+02	9.62	2.52	5.1E+02	-6.07
	14	10.28	2.24	2.4E+02	9.66	2.55	5.1E+02	-6.09
	15	10.28	2.20	2.4E+02	9.67	2.53	5.0E+02	-5.95
	16	10.24	2.22	2.4E+02	9.62	2.53	5.1E+02	-5.99
	17	10.23	2.22	2.5E+02	9.63	2.55	5.3E+02	-5.92
	18	10.31	2.27	2.5E+02	9.67	2.58	5.2E+02	-6.26
	19	10.26	2.26	2.5E+02	9.62	2.60	5.3E+02	-6.32
	20	10.25	2.23	2.5E+02	9.61	2.56	5.3E+02	-6.21
	21	10.24	2.22	2.4E+02	9.63	2.56	5.2E+02	-6.00
	22	10.32	2.24	2.5E+02	9.66	2.49	5.2E+02	-6.45
	23	10.31	2.25	2.4E+02	9.70	2.57	5.1E+02	-5.99
	24	10.47	2.30	2.5E+02	9.82	2.60	5.1E+02	-6.24
	25	10.20	2.20	2.5E+02	9.56	2.49	5.1E+02	-6.28
	26	10.45	2.27	2.5E+02	9.78	2.57	5.2E+02	-6.35
	27	10.34	2.25	2.4E+02	9.73	2.55	4.9E+02	-5.96
	28	10.34	2.25	2.4E+02	9.70	2.48	5.0E+02	-6.13
	29	10.26	2.22	2.5E+02	9.65	2.54	5.0E+02	-5.91
	30	10.51	2.28	2.5E+02	9.85	2.55	5.1E+02	-6.29
	31	10.39	2.26	2.5E+02	9.76	2.58	5.1E+02	-6.12
	32	10.29	2.22	2.5E+02	9.67	2.51	5.1E+02	-6.04
	33	10.22	2.23	2.5E+02	9.60	2.54	5.1E+02	-6.05
	34	10.29	2.22	2.5E+02	9.67	2.50	5.1E+02	-6.07
	35	10.48	2.27	2.4E+02	9.85	2.58	5.1E+02	-6.05
	36	10.46	2.29	2.5E+02	9.82	2.61	5.2E+02	-6.12
	37	10.20	2.20	2.4E+02	9.58	2.53	5.2E+02	-6.14
	38	10.29	2.25	2.4E+02	9.67	2.58	5.2E+02	-6.06
C	39	10.40	2.25	2.5E+02	9.76	2.58	5.1E+02	-6.17
	40	10.25	2.22	2.5E+02	9.63	2.53	5.1E+02	-6.04
	41	10.57	2.30	2.5E+02	9.91	2.61	5.2E+02	-6.29
	42	10.34	2.24	2.5E+02	9.70	2.56	5.2E+02	-6.14
	43	10.42	2.27	2.5E+02	9.77	2.58	5.2E+02	-6.24
	44	10.23	2.23	2.5E+02	9.61	2.56	5.2E+02	-6.06
	45	10.33	2.28	2.5E+02	9.71	2.62	5.2E+02	-6.00
	46	10.48	2.28	2.4E+02	9.85	2.59	5.0E+02	-5.99
	47	10.27	2.23	2.5E+02	9.66	2.55	5.1E+02	-5.96
	48	10.36	2.25	2.5E+02	9.74	2.61	5.2E+02	-5.92
	49	10.18	2.23	2.5E+02	9.58	2.57	5.2E+02	-5.86
	50	10.18	2.23	2.4E+02	9.59	2.56	5.1E+02	-5.82
	51	10.38	2.27	2.4E+02	9.76	2.60	5.2E+02	-5.91
	52	10.35	2.25	2.4E+02	9.73	2.62	5.1E+02	-5.97
	53	10.23	2.22	2.5E+02	9.62	2.59	5.2E+02	-6.04
	54	10.50	2.28	2.5E+02	9.83	2.64	5.3E+02	-6.34
	55	10.49	2.30	2.5E+02	9.82	2.63	5.3E+02	-6.41
	56	10.32	2.27	2.5E+02	9.68	2.57	5.2E+02	-6.17
	57	10.29	2.27	2.5E+02	9.66	2.56	5.3E+02	-6.11
	58	10.40	2.29	2.4E+02	9.77	2.58	5.0E+02	-6.03
	59	10.49	2.29	2.4E+02	9.85	2.58	5.0E+02	-6.06
	60	10.32	2.24	2.4E+02	9.71	2.55	5.1E+02	-5.89
	61	10.24	2.25	2.5E+02	9.64	2.55	5.2E+02	-5.91
	62	10.17	2.24	2.5E+02	9.56	2.52	5.1E+02	-5.98
	63	10.35	2.27	2.5E+02	9.73	2.56	5.1E+02	-5.96
	64	10.40	2.28	2.5E+02	9.77	2.58	5.1E+02	-6.10
	65	10.27	2.25	2.5E+02	9.65	2.55	5.1E+02	-6.06
	66	10.48	2.32	2.5E+02	9.84	2.59	5.3E+02	-6.13
	67	10.26	2.27	2.5E+02	9.65	2.56	5.2E+02	-5.99
	68	10.46	2.28	2.4E+02	9.84	2.58	5.1E+02	-5.93
	69	10.28	2.27	2.5E+02	9.66	2.55	5.1E+02	-6.01
	70	10.37	2.29	2.4E+02	9.74	2.56	5.1E+02	-6.07
	71	10.57	2.36	2.5E+02	9.91	2.63	5.4E+02	-6.26
	72	10.45	2.35	2.4E+02	9.81	2.73	5.1E+02	-6.10
	73	10.34	2.27	2.4E+02	9.70	2.62	5.3E+02	-6.21
	74	10.42	2.25	2.4E+02	9.77	2.62	5.1E+02	-6.21
	75	10.25	2.22	2.4E+02	9.62	2.56	5.1E+02	-6.08
	76	10.50	2.28	2.4E+02	9.86	2.63	5.2E+02	-6.14
	77	10.27	2.23	2.4E+02	9.65	2.58	5.1E+02	-5.99

AEC-Q200 Summary of Test Results

	Murata P/N: GCJ32ER71E106KA18
Manufacturing Location: Philippine Manufacturing Co. of Murata	Lot No: A,B,C
Date before test: 2025/3/7	Date after test: 2025/5/8

#7 - Humidity Bias

Test conditions : 1000hr , 85deg C / 85% RH , 1.3V

No. of samples:	77	Initial readings			Final readings			
No. of lots:	3	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Change in capacitance %
Spec limits	lower	9.00		5.0E+01			0.0E+00	-12.50
	upper	11.00	5.00			5.00		12.50
Measurement Statistics	mean	10.554	2.305	2.5E+02	10.219	2.414	3.0E+02	-3.177
	maximum	10.96	2.40	2.6E+02	10.59	2.66	3.1E+02	-2.88
	minimum	10.12	2.19	2.4E+02	9.81	2.28	2.8E+02	-3.62
	standard deviation	0.2078	0.0510	5.1E+00	0.1959	0.0623	6.6E+00	0.1154

Test Data

Lot No	Sample	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Change in capacitance %
A	1	10.69	2.35	2.4E+02	10.33	2.48	3.0E+02	-3.39
	2	10.66	2.36	2.5E+02	10.28	2.46	3.1E+02	-3.52
	3	10.73	2.34	2.4E+02	10.37	2.45	2.9E+02	-3.33
	4	10.67	2.35	2.5E+02	10.31	2.45	3.0E+02	-3.35
	5	10.93	2.36	2.4E+02	10.56	2.48	2.9E+02	-3.32
	6	10.85	2.37	2.5E+02	10.48	2.49	3.0E+02	-3.39
	7	10.82	2.35	2.4E+02	10.46	2.47	2.9E+02	-3.32
	8	10.59	2.29	2.4E+02	10.26	2.41	2.9E+02	-3.16
	9	10.80	2.37	2.4E+02	10.45	2.49	2.9E+02	-3.26
	10	10.86	2.35	2.4E+02	10.51	2.47	2.9E+02	-3.25
	11	10.84	2.33	2.4E+02	10.49	2.46	2.8E+02	-3.17
	12	10.65	2.34	2.5E+02	10.28	2.40	3.0E+02	-3.52
	13	10.67	2.31	2.5E+02	10.32	2.42	3.0E+02	-3.26
	14	10.72	2.34	2.4E+02	10.37	2.44	3.0E+02	-3.30
	15	10.72	2.33	2.4E+02	10.37	2.44	2.9E+02	-3.24
	16	10.77	2.34	2.4E+02	10.41	2.45	2.9E+02	-3.32
	17	10.92	2.37	2.4E+02	10.55	2.48	3.0E+02	-3.41
	18	10.75	2.34	2.4E+02	10.40	2.45	2.8E+02	-3.27
	19	10.89	2.36	2.4E+02	10.51	2.48	2.9E+02	-3.51
	20	10.79	2.33	2.5E+02	10.40	2.42	3.0E+02	-3.62
	21	10.71	2.32	2.5E+02	10.35	2.44	3.0E+02	-3.36
	22	10.90	2.33	2.4E+02	10.54	2.51	3.0E+02	-3.28
	23	10.94	2.35	2.4E+02	10.57	2.47	2.9E+02	-3.41
	24	10.82	2.34	2.4E+02	10.47	2.46	2.9E+02	-3.25
	25	10.88	2.36	2.4E+02	10.53	2.49	2.9E+02	-3.24
	26	10.81	2.32	2.4E+02	10.46	2.44	2.8E+02	-3.23
	27	10.49	2.25	2.5E+02	10.15	2.38	3.0E+02	-3.20
	28	10.63	2.32	2.5E+02	10.29	2.43	3.0E+02	-3.26
	29	10.73	2.33	2.5E+02	10.38	2.44	3.0E+02	-3.29
	30	10.56	2.28	2.4E+02	10.23	2.40	2.9E+02	-3.14
	31	10.75	2.32	2.4E+02	10.41	2.44	2.9E+02	-3.18
	32	10.83	2.33	2.4E+02	10.47	2.46	3.0E+02	-3.25
	33	10.88	2.35	2.4E+02	10.52	2.47	2.9E+02	-3.25
	34	10.65	2.29	2.4E+02	10.31	2.41	2.9E+02	-3.15
	35	10.96	2.36	2.4E+02	10.59	2.48	2.9E+02	-3.34
	36	10.63	2.29	2.4E+02	10.28	2.41	2.9E+02	-3.26
	37	10.71	2.33	2.5E+02	10.36	2.44	3.0E+02	-3.28
	38	10.74	2.33	2.4E+02	10.40	2.44	2.9E+02	-3.13
	39	10.82	2.33	2.4E+02	10.48	2.45	3.0E+02	-3.19
	40	10.85	2.36	2.4E+02	10.51	2.50	2.9E+02	-3.13
	41	10.92	2.36	2.5E+02	10.57	2.48	3.0E+02	-3.20
	42	10.69	2.35	2.4E+02	10.36	2.46	3.0E+02	-3.09
	43	10.69	2.34	2.4E+02	10.36	2.45	2.9E+02	-3.09
	44	10.82	2.35	2.4E+02	10.48	2.46	2.9E+02	-3.14
	45	10.78	2.31	2.4E+02	10.46	2.42	2.8E+02	-3.04
	46	10.70	2.32	2.4E+02	10.37	2.44	2.9E+02	-3.11
	47	10.77	2.35	2.5E+02	10.42	2.46	2.9E+02	-3.17
	48	10.66	2.31	2.4E+02	10.34	2.44	2.9E+02	-3.03
	49	10.89	2.36	2.4E+02	10.55	2.48	2.9E+02	-3.13
	50	10.64	2.29	2.4E+02	10.32	2.41	2.8E+02	-3.04
	51	10.72	2.36	2.4E+02	10.39	2.48	2.9E+02	-3.14
	52	10.76	2.32	2.4E+02	10.42	2.45	2.9E+02	-3.21
	53	10.75	2.36	2.5E+02	10.40	2.49	3.0E+02	-3.31
	54	10.73	2.34	2.4E+02	10.37	2.49	2.9E+02	-3.34
	55	10.69	2.35	2.4E+02	10.35	2.45	2.9E+02	-3.21
	56	10.78	2.38	2.4E+02	10.43	2.48	3.0E+02	-3.25
	57	10.93	2.36	2.4E+02	10.57	2.46	2.9E+02	-3.30
	58	10.81	2.35	2.4E+02	10.47	2.47	2.9E+02	-3.20
	59	10.68	2.37	2.5E+02	10.33	2.46	3.0E+02	-3.28
	60	10.77	2.35	2.4E+02	10.41	2.46	2.9E+02	-3.26
	61	10.70	2.34	2.4E+02	10.36	2.45	2.9E+02	-3.17
	62	10.76	2.37	2.5E+02	10.41	2.48	3.0E+02	-3.24
	63	10.68	2.34	2.4E+02	10.35	2.46	2.9E+02	-3.12
	64	10.87	2.38	2.4E+02	10.52	2.50	2.9E+02	-3.18
	65	10.75	2.33	2.4E+02	10.41	2.46	2.9E+02	-3.14
	66	10.76	2.35	2.4E+02	10.41	2.46	3.0E+02	-3.24
	67	10.80	2.39	2.4E+02	10.45	2.47	2.9E+02	-3.25
	68	10.69	2.39	2.5E+02	10.35	2.49	3.0E+02	-3.19
	69	10.88	2.38	2.4E+02	10.52	2.49	3.0E+02	-3.30
	70	10.73	2.38	2.5E+02	10.37	2.49	3.0E+02	-3.27
	71	10.89	2.39	2.5E+02	10.52	2.51	3.0E+02	-3.35
	72	10.81	2.37	2.4E+02	10.45	2.50	2.9E+02	-3.39
	73	10.92	2.39	2.4E+02	10.56	2.54	2.9E+02	-3.26
	74	10.75	2.37	2.4E+02	10.41	2.50	2.9E+02	-3.12
	75	10.75	2.39	2.5E+02	10.40	2.66	3.0E+02	-3.26
	76	10.81	2.37	2.4E+02	10.46	2.56	2.9E+02	-3.27
	77	10.75	2.36	2.4E+02	10.41	2.54	2.9E+02	-3.21

AEC-Q200 Summary of Test Results

	Murata P/N: GCJ32ER71E106KA18
Manufacturing Location: Philippine Manufacturing Co. of Murata	Lot No: A,B,C
Date before test: 2025/3/7	Date after test: 2025/5/8

#7 - Humidity Bias

Test conditions : 1000hr , 85deg C / 85% RH , 1.3V

	1	10.20	2.22	2.4E+02	9.89	2.32	2.9E+02	-3.04
	2	10.77	2.34	2.4E+02	10.42	2.46	2.9E+02	-3.18
	3	10.46	2.30	2.5E+02	10.13	2.41	3.0E+02	-3.18
	4	10.76	2.34	2.5E+02	10.41	2.45	3.0E+02	-3.28
	5	10.63	2.33	2.5E+02	10.28	2.45	3.1E+02	-3.22
	6	10.46	2.29	2.5E+02	10.12	2.40	3.1E+02	-3.21
	7	10.71	2.35	2.4E+02	10.37	2.47	2.9E+02	-3.16
	8	10.70	2.36	2.5E+02	10.36	2.48	3.0E+02	-3.18
	9	10.73	2.34	2.6E+02	10.38	2.46	3.1E+02	-3.28
	10	10.63	2.34	2.4E+02	10.30	2.46	3.0E+02	-3.09
	11	10.76	2.36	2.4E+02	10.42	2.50	2.9E+02	-3.20
	12	10.48	2.27	2.4E+02	10.15	2.39	2.9E+02	-3.09
	13	10.69	2.35	2.5E+02	10.35	2.47	3.0E+02	-3.19
	14	10.55	2.28	2.4E+02	10.22	2.44	2.9E+02	-3.09
	15	10.70	2.38	2.5E+02	10.37	2.52	3.1E+02	-3.10
	16	10.31	2.29	2.5E+02	10.00	2.41	3.0E+02	-3.09
	17	10.51	2.33	2.5E+02	10.18	2.42	3.0E+02	-3.12
	18	10.29	2.28	2.5E+02	9.98	2.38	3.0E+02	-3.03
	19	10.48	2.30	2.4E+02	10.11	2.36	2.9E+02	-3.56
	20	10.59	2.36	2.6E+02	10.23	2.45	3.1E+02	-3.42
	21	10.68	2.36	2.5E+02	10.32	2.45	3.1E+02	-3.36
	22	10.55	2.34	2.5E+02	10.21	2.44	3.0E+02	-3.24
	23	10.48	2.30	2.5E+02	10.15	2.39	3.0E+02	-3.22
	24	10.65	2.36	2.6E+02	10.31	2.45	3.1E+02	-3.23
	25	10.44	2.32	2.6E+02	10.11	2.40	3.1E+02	-3.20
	26	10.51	2.33	2.5E+02	10.18	2.42	3.0E+02	-3.17
	27	10.77	2.33	2.4E+02	10.44	2.43	2.9E+02	-3.07
	28	10.74	2.37	2.4E+02	10.39	2.47	2.9E+02	-3.22
	29	10.68	2.33	2.4E+02	10.34	2.42	2.9E+02	-3.18
	30	10.48	2.30	2.5E+02	10.14	2.39	3.0E+02	-3.22
	31	10.61	2.30	2.4E+02	10.30	2.41	2.8E+02	-2.90
	32	10.47	2.33	2.6E+02	10.13	2.43	3.1E+02	-3.26
	33	10.32	2.29	2.6E+02	9.99	2.39	3.1E+02	-3.20
	34	10.43	2.29	2.5E+02	10.10	2.40	2.9E+02	-3.13
	35	10.38	2.29	2.5E+02	10.06	2.39	3.0E+02	-3.10
	36	10.56	2.31	2.4E+02	10.22	2.41	2.8E+02	-3.20
	37	10.19	2.26	2.5E+02	9.87	2.39	3.0E+02	-3.14
	38	10.70	2.38	2.6E+02	10.36	2.48	3.1E+02	-3.16
B	39	10.70	2.40	2.5E+02	10.36	2.54	3.1E+02	-3.15
	40	10.52	2.34	2.6E+02	10.19	2.46	3.1E+02	-3.15
	41	10.44	2.29	2.5E+02	10.12	2.41	2.9E+02	-3.05
	42	10.65	2.33	2.4E+02	10.33	2.46	2.9E+02	-3.01
	43	10.51	2.30	2.4E+02	10.20	2.41	2.9E+02	-2.99
	44	10.58	2.34	2.5E+02	10.25	2.47	3.0E+02	-3.09
	45	10.52	2.34	2.5E+02	10.20	2.45	3.0E+02	-3.08
	46	10.50	2.35	2.5E+02	10.18	2.46	3.0E+02	-3.05
	47	10.40	2.28	2.4E+02	10.08	2.39	2.9E+02	-3.09
	48	10.75	2.37	2.4E+02	10.42	2.49	2.9E+02	-3.07
	49	10.57	2.34	2.5E+02	10.26	2.43	3.0E+02	-2.89
	50	10.61	2.38	2.5E+02	10.28	2.50	3.0E+02	-3.13
	51	10.46	2.33	2.5E+02	10.13	2.44	3.1E+02	-3.12
	52	10.43	2.29	2.5E+02	10.11	2.41	3.0E+02	-3.03
	53	10.68	2.38	2.5E+02	10.33	2.50	3.1E+02	-3.25
	54	10.49	2.31	2.5E+02	10.15	2.47	3.0E+02	-3.19
	55	10.77	2.36	2.5E+02	10.43	2.47	3.0E+02	-3.21
	56	10.51	2.32	2.4E+02	10.18	2.42	2.9E+02	-3.16
	57	10.54	2.31	2.5E+02	10.21	2.42	3.0E+02	-3.08
	58	10.38	2.28	2.5E+02	10.06	2.38	3.0E+02	-3.09
	59	10.44	2.25	2.4E+02	10.14	2.34	2.8E+02	-2.88
	60	10.35	2.26	2.5E+02	10.04	2.37	3.0E+02	-3.02
	61	10.43	2.26	2.5E+02	10.11	2.36	3.0E+02	-3.13
	62	10.72	2.37	2.6E+02	10.38	2.46	3.1E+02	-3.16
	63	10.66	2.35	2.5E+02	10.34	2.45	3.0E+02	-3.05
	64	10.33	2.24	2.5E+02	10.02	2.34	3.0E+02	-2.98
	65	10.74	2.33	2.5E+02	10.42	2.44	3.0E+02	-2.96
	66	10.53	2.31	2.5E+02	10.22	2.43	3.0E+02	-2.92
	67	10.67	2.33	2.5E+02	10.34	2.45	3.0E+02	-3.12
	68	10.52	2.31	2.5E+02	10.20	2.42	3.0E+02	-3.03
	69	10.56	2.30	2.5E+02	10.23	2.40	3.0E+02	-3.14
	70	10.68	2.37	2.5E+02	10.34	2.47	3.1E+02	-3.20
	71	10.48	2.30	2.4E+02	10.15	2.39	2.9E+02	-3.10
	72	10.61	2.35	2.4E+02	10.27	2.45	3.0E+02	-3.19
	73	10.43	2.29	2.5E+02	10.10	2.38	3.0E+02	-3.20
	74	10.59	2.34	2.4E+02	10.26	2.45	2.9E+02	-3.17
	75	10.28	2.24	2.4E+02	9.95	2.35	2.9E+02	-3.18
	76	10.40	2.28	2.4E+02	10.08	2.38	2.9E+02	-3.10
	77	10.56	2.30	2.4E+02	10.22	2.42	2.9E+02	-3.15

AEC-Q200 Summary of Test Results

	Murata P/N: GCJ32ER71E106KA18
Manufacturing Location: Philippine Manufacturing Co. of Murata	Lot No: A,B,C
Date before test: 2025/3/7	Date after test: 2025/5/8

#7 - Humidity Bias

Test conditions : 1000hr , 85deg C / 85% RH , 1.3V

	1	10.34	2.23	2.5E+02	10.00	2.33	3.0E+02	-3.36
	2	10.22	2.20	2.5E+02	9.88	2.30	3.0E+02	-3.27
	3	10.66	2.30	2.5E+02	10.31	2.40	3.0E+02	-3.33
	4	10.39	2.27	2.5E+02	10.06	2.36	3.0E+02	-3.18
	5	10.30	2.24	2.4E+02	9.99	2.33	2.9E+02	-3.05
	6	10.52	2.27	2.5E+02	10.19	2.38	3.0E+02	-3.15
	7	10.23	2.19	2.5E+02	9.91	2.29	3.0E+02	-3.12
	8	10.37	2.24	2.5E+02	10.04	2.33	3.0E+02	-3.19
	9	10.54	2.27	2.4E+02	10.21	2.37	2.9E+02	-3.15
	10	10.26	2.22	2.4E+02	9.94	2.32	2.9E+02	-3.07
	11	10.27	2.22	2.5E+02	9.94	2.31	3.0E+02	-3.23
	12	10.30	2.22	2.5E+02	9.99	2.31	3.0E+02	-3.06
	13	10.34	2.24	2.4E+02	10.02	2.33	2.9E+02	-3.06
	14	10.15	2.19	2.5E+02	9.84	2.28	3.0E+02	-3.13
	15	10.46	2.27	2.4E+02	10.13	2.35	2.9E+02	-3.15
	16	10.42	2.25	2.5E+02	10.08	2.34	3.0E+02	-3.24
	17	10.18	2.20	2.5E+02	9.87	2.29	3.0E+02	-3.10
	18	10.46	2.28	2.5E+02	10.12	2.37	3.0E+02	-3.25
	19	10.52	2.27	2.5E+02	10.18	2.37	3.0E+02	-3.32
	20	10.38	2.23	2.5E+02	10.05	2.33	3.0E+02	-3.17
	21	10.51	2.28	2.5E+02	10.17	2.37	3.1E+02	-3.28
	22	10.32	2.24	2.5E+02	10.00	2.34	3.0E+02	-3.15
	23	10.36	2.24	2.4E+02	10.04	2.34	2.9E+02	-3.14
	24	10.33	2.22	2.5E+02	10.00	2.31	3.0E+02	-3.18
	25	10.49	2.28	2.5E+02	10.15	2.38	3.0E+02	-3.23
	26	10.45	2.29	2.5E+02	10.12	2.38	3.1E+02	-3.24
	27	10.17	2.21	2.5E+02	9.86	2.31	2.9E+02	-3.08
	28	10.33	2.26	2.5E+02	10.00	2.35	3.0E+02	-3.13
	29	10.37	2.25	2.5E+02	10.05	2.34	3.0E+02	-3.12
	30	10.40	2.25	2.5E+02	10.08	2.34	3.0E+02	-3.10
	31	10.34	2.23	2.5E+02	10.00	2.32	3.0E+02	-3.23
	32	10.28	2.23	2.4E+02	9.96	2.32	2.9E+02	-3.08
	33	10.30	2.21	2.4E+02	9.98	2.30	2.9E+02	-3.09
	34	10.29	2.23	2.5E+02	9.97	2.32	2.9E+02	-3.13
	35	10.40	2.25	2.5E+02	10.06	2.35	3.0E+02	-3.23
	36	10.38	2.22	2.5E+02	10.05	2.32	3.0E+02	-3.25
	37	10.43	2.27	2.5E+02	10.09	2.37	3.0E+02	-3.21
	38	10.44	2.27	2.5E+02	10.12	2.37	3.0E+02	-3.09
C	39	10.30	2.25	2.6E+02	9.98	2.36	3.1E+02	-3.15
	40	10.22	2.24	2.5E+02	9.91	2.35	3.0E+02	-2.99
	41	10.48	2.30	2.6E+02	10.16	2.41	3.1E+02	-3.12
	42	10.35	2.27	2.5E+02	10.04	2.39	2.9E+02	-3.00
	43	10.44	2.28	2.5E+02	10.12	2.39	3.0E+02	-3.15
	44	10.46	2.28	2.5E+02	10.15	2.38	3.0E+02	-3.03
	45	10.37	2.27	2.5E+02	10.05	2.37	3.1E+02	-3.12
	46	10.62	2.31	2.6E+02	10.28	2.41	3.1E+02	-3.19
	47	10.43	2.26	2.5E+02	10.10	2.36	3.0E+02	-3.19
	48	10.22	2.22	2.6E+02	9.89	2.32	3.1E+02	-3.20
	49	10.33	2.27	2.5E+02	10.01	2.38	3.0E+02	-3.14
	50	10.29	2.25	2.5E+02	9.98	2.40	3.0E+02	-2.96
	51	10.55	2.29	2.5E+02	10.21	2.41	3.1E+02	-3.20
	52	10.40	2.29	2.5E+02	10.07	2.40	3.1E+02	-3.23
	53	10.36	2.25	2.4E+02	10.05	2.35	2.9E+02	-3.07
	54	10.16	2.20	2.5E+02	9.84	2.32	3.0E+02	-3.10
	55	10.32	2.27	2.5E+02	10.00	2.34	3.0E+02	-3.10
	56	10.36	2.26	2.5E+02	10.03	2.35	3.0E+02	-3.20
	57	10.28	2.25	2.5E+02	9.96	2.34	3.0E+02	-3.08
	58	10.36	2.31	2.5E+02	10.05	2.37	3.0E+02	-2.99
	59	10.20	2.24	2.5E+02	9.90	2.31	3.0E+02	-2.97
	60	10.54	2.29	2.5E+02	10.22	2.39	2.9E+02	-3.06
	61	10.16	2.20	2.4E+02	9.86	2.31	2.9E+02	-2.93
	62	10.24	2.23	2.5E+02	9.92	2.36	3.0E+02	-3.04
	63	10.12	2.20	2.5E+02	9.81	2.29	3.0E+02	-3.06
	64	10.32	2.25	2.5E+02	9.99	2.34	3.0E+02	-3.14
	65	10.33	2.27	2.5E+02	10.00	2.35	3.1E+02	-3.21
	66	10.19	2.22	2.4E+02	9.88	2.31	2.9E+02	-3.01
	67	10.25	2.24	2.5E+02	9.92	2.34	3.0E+02	-3.15
	68	10.36	2.26	2.5E+02	10.04	2.36	3.0E+02	-3.11
	69	10.22	2.24	2.5E+02	9.90	2.32	3.0E+02	-3.14
	70	10.43	2.29	2.6E+02	10.09	2.39	3.1E+02	-3.22
	71	10.34	2.29	2.4E+02	10.02	2.37	2.9E+02	-3.12
	72	10.20	2.23	2.5E+02	9.88	2.33	3.0E+02	-3.18
	73	10.28	2.25	2.4E+02	9.96	2.34	2.9E+02	-3.17
	74	10.26	2.25	2.5E+02	9.93	2.34	3.1E+02	-3.21
	75	10.48	2.30	2.4E+02	10.14	2.40	2.9E+02	-3.20
	76	10.39	2.25	2.5E+02	10.06	2.34	3.0E+02	-3.19
	77	10.42	2.29	2.5E+02	10.08	2.37	3.0E+02	-3.22

AEC-Q200 Summary of Test Results

	Murata P/N: GCJ32ER71E106KA18
Manufacturing Location: Philippine Manufacturing Co. of Murata	

#9 - External Visual

all qualification parts	Number of failures: 0

	Test No.	Result (pass/fail)
	3	pass
	4	pass
	5	pass
	6	pass
	7-1	pass
	7-2	pass
	8	pass
	10	pass
	12-1	pass
	12-2	pass
	12-3	pass
	13	pass
	14	pass
	15	pass
	17	pass
	18	pass
	19	pass
	21	pass
	22	pass
	23	pass

AEC-Q200 Summary of Test Results

	Murata P/N: GCJ32ER71E106KA18
Manufacturing Location: Philippine Manufacturing Co. of Murata	Lot No: A
Date before test: 2025/6/13	

#10 - Physical Dimensions

Number of Samples: 30 Number of Lots: 1		Readings at Room Temp: 25C					
		L [mm]	W [mm]	T [mm]	e1 [mm]	e2 [mm]	g [mm]
Spec limits	lower	2.80	2.20	2.20	0.30	0.30	1.00
	upper	3.60	2.80	2.80			
Measurement Statistics	mean	3.386	2.572	2.500	0.890	0.881	1.657
	maximum	3.41	2.58	2.52	0.98	0.98	1.80
	minimum	3.37	2.56	2.48	0.74	0.70	1.52
	standard deviation	0.0107	0.0058	0.0089	0.0661	0.0730	0.0691
Lot No	Sample	L [mm]	W [mm]	T [mm]	e1 [mm]	e2 [mm]	g [mm]
A	1	3.39	2.56	2.51	0.95	0.96	1.52
	2	3.37	2.57	2.51	0.88	0.87	1.66
	3	3.39	2.58	2.50	0.88	0.93	1.61
	4	3.37	2.58	2.52	0.88	0.85	1.72
	5	3.39	2.57	2.50	0.81	0.95	1.67
	6	3.40	2.58	2.48	0.89	0.93	1.62
	7	3.38	2.56	2.49	0.80	0.92	1.71
	8	3.38	2.57	2.50	0.92	0.79	1.72
	9	3.37	2.57	2.50	0.98	0.77	1.68
	10	3.39	2.57	2.52	0.94	0.82	1.67
	11	3.38	2.58	2.50	0.95	0.76	1.73
	12	3.40	2.58	2.51	0.86	0.90	1.67
	13	3.37	2.57	2.50	0.93	0.93	1.56
	14	3.40	2.57	2.49	0.94	0.90	1.59
	15	3.39	2.58	2.49	0.79	0.90	1.74
	16	3.41	2.58	2.51	0.98	0.89	1.55
	17	3.39	2.57	2.52	0.88	0.90	1.65
	18	3.38	2.57	2.50	0.97	0.77	1.69
	19	3.37	2.57	2.49	0.74	0.97	1.71
	20	3.38	2.57	2.50	0.77	0.96	1.70
	21	3.39	2.57	2.50	0.86	0.88	1.70
	22	3.39	2.58	2.51	0.91	0.78	1.75
	23	3.41	2.58	2.50	0.94	0.92	1.58
	24	3.38	2.57	2.50	0.95	0.84	1.64
	25	3.40	2.57	2.51	0.79	0.94	1.69
	26	3.39	2.58	2.49	0.87	0.87	1.68
	27	3.40	2.58	2.49	0.83	0.98	1.61
	28	3.37	2.57	2.50	0.95	0.70	1.80
	29	3.39	2.57	2.49	0.92	0.91	1.58
	30	3.38	2.57	2.50	0.95	0.92	1.55

AEC-Q200 Summary of Test Results

	Murata P/N: GCJ32ER71E106KA18
Manufacturing Location: Philippine Manufacturing Co. of Murata	Lot No: A
Date before test: 2025/5/13	Date after test: 2025/5/16

#12 - Resistance to solvents

Number of Samples: 5 Number of Lots: 1	*Test conditions A : 1 part (by volume) of isopropyl alcohol and 3 parts (by volume) of mineral spirits, 25deg C 3min immersion* *Test conditions B : terpene defluxer, 25deg C 3min immersion* *Test conditions C : 42 parts(by volume) of water and 1 part (by volume) of propylene glycol monomethylether and 1 part (by volume) of monoethanolamine, 63-70deg C 3min immersion*

Lot No	Sample	Number of failures: 0
A	1	No Failure
	2	No Failure
	3	No Failure
	4	No Failure
	5	No Failure

AEC-Q200 Summary of Test Results

	Murata P/N: GCJ32ER71E106KA18
Manufacturing Location: Philippine Manufacturing Co. of Murata	Lot No: A,B,C
Date before test: 2025/3/22	Date after test: 205/4/1

#13 - Mechanical Shock

Test conditions : Shock pulse : 1500g's, 0.5ms, 4.7m/s, 3 times each of 6 orientations

No. of samples:	30	Initial readings			Final readings			
No. of lots:	3	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Change in capacitance %
Spec limits	lower	9.00		5.0E+01	9.00		5.0E+01	
	upper	11.00	5.00		11.00	5.00		
Measurement Statistics	mean	10.536	1.929	2.5E+02	10.038	2.033	3.3E+02	-4.726
	maximum	10.80	2.22	2.8E+02	10.27	2.12	3.6E+02	-4.38
	minimum	10.17	1.84	2.4E+02	9.69	1.92	3.1E+02	-5.04
	standard deviation	0.1154	0.0523	6.1E+00	0.1046	0.0476	1.1E+01	0.1459

Test Data

Lot No	Sample	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Change in capacitance %
A	1	10.58	1.90	2.5E+02	10.08	2.01	3.3E+02	-4.74
	2	10.32	1.85	2.6E+02	9.86	1.97	3.3E+02	-4.53
	3	10.60	1.92	2.5E+02	10.10	2.05	3.3E+02	-4.70
	4	10.65	1.90	2.5E+02	10.14	2.00	3.3E+02	-4.76
	5	10.43	1.90	2.5E+02	9.95	2.05	3.3E+02	-4.63
	6	10.52	1.88	2.5E+02	10.02	2.00	3.2E+02	-4.72
	7	10.63	1.91	2.5E+02	10.13	2.01	3.3E+02	-4.71
	8	10.60	1.89	2.5E+02	10.10	1.98	3.2E+02	-4.70
	9	10.60	1.90	2.6E+02	10.09	2.04	3.3E+02	-4.76
	10	10.47	1.92	2.6E+02	9.98	2.05	3.3E+02	-4.66
	11	10.43	1.86	2.6E+02	9.96	1.99	3.3E+02	-4.54
	12	10.44	1.90	2.6E+02	9.97	2.03	3.4E+02	-4.57
	13	10.56	1.89	2.5E+02	10.07	2.03	3.3E+02	-4.65
	14	10.48	1.91	2.5E+02	10.02	2.07	3.3E+02	-4.40
	15	10.49	1.92	2.6E+02	10.02	2.02	3.3E+02	-4.51
	16	10.62	1.87	2.5E+02	10.13	2.00	3.2E+02	-4.58
	17	10.70	1.91	2.5E+02	10.19	2.01	3.2E+02	-4.71
	18	10.53	1.90	2.5E+02	10.04	2.00	3.2E+02	-4.67
	19	10.63	1.90	2.5E+02	10.14	2.05	3.2E+02	-4.58
	20	10.58	1.90	2.5E+02	10.10	2.03	3.1E+02	-4.58
	21	10.38	1.88	2.5E+02	9.92	2.02	3.2E+02	-4.49
	22	10.58	1.91	2.5E+02	10.09	2.01	3.2E+02	-4.57
	23	10.69	1.89	2.5E+02	10.21	2.03	3.1E+02	-4.50
	24	10.38	1.89	2.4E+02	9.91	1.96	3.1E+02	-4.52
	25	10.42	1.84	2.5E+02	9.96	1.95	3.1E+02	-4.39
	26	10.37	1.86	2.5E+02	9.91	1.96	3.1E+02	-4.48
	27	10.54	1.88	2.5E+02	10.07	1.98	3.1E+02	-4.48
	28	10.49	1.85	2.5E+02	10.02	1.92	3.1E+02	-4.55
	29	10.61	1.87	2.5E+02	10.13	1.96	3.1E+02	-4.55
	30	10.37	1.86	2.5E+02	9.92	1.99	3.2E+02	-4.38
B	1	10.18	1.93	2.8E+02	9.70	1.99	3.6E+02	-4.71
	2	10.45	1.91	2.6E+02	9.95	2.01	3.3E+02	-4.83
	3	10.50	1.96	2.6E+02	9.97	2.02	3.3E+02	-4.99
	4	10.80	1.95	2.5E+02	10.27	1.99	3.3E+02	-4.97
	5	10.57	1.96	2.6E+02	10.04	2.01	3.3E+02	-5.01
	6	10.43	1.92	2.6E+02	9.92	2.04	3.4E+02	-4.88
	7	10.65	2.22	2.5E+02	10.11	2.03	3.3E+02	-5.03
	8	10.59	1.96	2.5E+02	10.07	2.07	3.4E+02	-4.87
	9	10.51	1.98	2.6E+02	10.00	2.11	3.4E+02	-4.83
	10	10.55	1.93	2.6E+02	10.03	2.07	3.3E+02	-4.88
	11	10.54	1.99	2.7E+02	10.02	2.07	3.4E+02	-4.85
	12	10.44	1.92	2.7E+02	9.94	1.98	3.4E+02	-4.82
	13	10.65	2.01	2.5E+02	10.14	2.06	3.3E+02	-4.83
	14	10.69	1.95	2.5E+02	10.18	2.05	3.2E+02	-4.72
	15	10.51	1.97	2.6E+02	10.01	2.02	3.4E+02	-4.75
	16	10.33	1.86	2.6E+02	9.85	1.94	3.3E+02	-4.60
	17	10.56	1.94	2.6E+02	10.05	2.06	3.3E+02	-4.77
	18	10.70	1.96	2.6E+02	10.19	2.01	3.2E+02	-4.76
	19	10.61	1.99	2.6E+02	10.11	2.08	3.3E+02	-4.69
	20	10.57	2.03	2.6E+02	10.08	2.06	3.2E+02	-4.64
	21	10.62	1.96	2.5E+02	10.12	2.07	3.2E+02	-4.73
	22	10.53	2.07	2.5E+02	10.03	2.01	3.2E+02	-4.71
	23	10.61	2.00	2.5E+02	10.11	2.06	3.2E+02	-4.73
	24	10.53	1.96	2.6E+02	10.03	2.07	3.2E+02	-4.72
	25	10.48	1.94	2.5E+02	9.99	2.04	3.2E+02	-4.63
	26	10.59	1.92	2.5E+02	10.09	1.98	3.2E+02	-4.72
	27	10.59	1.96	2.5E+02	10.09	2.06	3.1E+02	-4.69
	28	10.50	1.91	2.5E+02	10.01	1.95	3.3E+02	-4.69
	29	10.62	1.96	2.5E+02	10.12	2.02	3.2E+02	-4.71
	30	10.46	1.93	2.6E+02	9.97	1.99	3.3E+02	-4.67
C	1	10.61	1.94	2.5E+02	10.09	2.12	3.3E+02	-4.87
	2	10.65	1.96	2.5E+02	10.13	2.12	3.3E+02	-4.89
	3	10.59	1.94	2.6E+02	10.07	2.07	3.3E+02	-4.96
	4	10.74	1.95	2.6E+02	10.20	2.06	3.3E+02	-5.04
	5	10.43	1.91	2.6E+02	9.93	2.07	3.3E+02	-4.80
	6	10.57	1.93	2.5E+02	10.07	2.12	3.4E+02	-4.79
	7	10.36	1.90	2.5E+02	9.88	2.08	3.3E+02	-4.72
	8	10.47	1.93	2.6E+02	9.97	2.10	3.4E+02	-4.76
	9	10.51	1.94	2.5E+02	10.01	2.10	3.3E+02	-4.79
	10	10.56	1.92	2.6E+02	10.05	2.11	3.4E+02	-4.83
	11	10.57	1.93	2.5E+02	10.06	2.12	3.3E+02	-4.80
	12	10.42	1.92	2.6E+02	9.93	2.08	3.4E+02	-4.71
	13	10.45	1.93	2.5E+02	9.94	2.02	3.4E+02	-4.90
	14	10.50	1.96	2.6E+02	9.99	2.08	3.5E+02	-4.83
	15	10.61	1.98	2.6E+02	10.10	2.07	3.5E+02	-4.85
	16	10.70	1.96	2.6E+02	10.17	2.05	3.5E+02	-4.93
	17	10.17	1.84	2.6E+02	9.69	1.94	3.3E+02	-4.64
	18	10.68	1.95	2.6E+02	10.16	2.10	3.5E+02	-4.88
	19	10.49	1.92	2.5E+02	9.99	2.07	3.2E+02	-4.74
	20	10.68	1.96	2.5E+02	10.16	2.09	3.2E+02	-4.81
	21	10.57	1.96	2.5E+02	10.06	2.06	3.2E+02	-4.85
	22	10.63	1.92	2.5E+02	10.13	2.07	3.1E+02	-4.72
	23	10.45	1.90	2.5E+02	9.96	2.04	3.2E+02	-4.70
	24	10.35	1.90	2.5E+02	9.86	1.95	3.1E+02	-4.76
	25	10.66	1.96	2.5E+02	10.13	2.04	3.1E+02	-4.96
	26	10.58	1.94	2.5E+02	10.05	1.97	3.2E+02	-4.94
	27	10.32	1.90	2.6E+02	9.85	2.03	3.1E+02	-4.59
	28	10.59	1.93	2.5E+02	10.08	1.96	3.2E+02	-4.79
	29	10.63	1.94	2.5E+02	10.13	2.04	3.2E+02	-4.70
	30	10.67	1.98	2.5E+02	10.16	2.09	3.2E+02	-4.77

AEC-Q200 Summary of Test Results

	Murata P/N: GCJ32ER71E106KA18
Manufacturing Location: Philippine Manufacturing Co. of Murata	Lot No: A,B,C
Date before test: 2025/3/22	Date after test: 2025/4/28

#14 - Vibration

Test conditions : 5g's for 20min, 12 cycles each of 3 orientations, test frequency 10 - 2000Hz

No. of samples:	30	Initial readings			Final readings			
No. of lots:	3	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Change in capacitance %
Spec limits	lower	9.00		5.0E+01	9.00		5.0E+01	
	upper	11.00	5.00		11.00	5.00		
Measurement Statistics	mean	10.548	1.929	2.5E+02	10.039	2.110	3.2E+02	-4.831
	maximum	10.73	2.24	2.8E+02	10.20	2.28	3.6E+02	-4.64
	minimum	10.26	1.83	2.4E+02	9.78	2.00	3.0E+02	-5.04
	standard deviation	0.1069	0.0516	7.0E+00	0.0983	0.0658	1.2E+01	0.0998

Test Data

Lot No	Sample	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Change in capacitance %
A	1	10.59	1.90	2.6E+02	10.06	2.05	3.2E+02	-4.99
	2	10.51	1.90	2.5E+02	9.98	2.04	3.2E+02	-5.03
	3	10.64	1.92	2.6E+02	10.11	2.06	3.2E+02	-5.01
	4	10.61	1.91	2.6E+02	10.09	2.07	3.3E+02	-4.90
	5	10.64	1.90	2.6E+02	10.11	2.05	3.1E+02	-4.96
	6	10.64	1.89	2.5E+02	10.12	2.04	3.2E+02	-4.88
	7	10.60	1.94	2.5E+02	10.07	2.08	3.2E+02	-4.99
	8	10.52	1.89	2.5E+02	10.01	2.06	3.1E+02	-4.81
	9	10.26	1.83	2.5E+02	9.78	2.01	3.1E+02	-4.70
	10	10.66	1.90	2.4E+02	10.13	2.06	3.3E+02	-4.94
	11	10.60	1.89	2.4E+02	10.08	2.05	3.2E+02	-4.87
	12	10.45	1.89	2.5E+02	9.96	2.03	3.3E+02	-4.76
	13	10.70	1.92	2.5E+02	10.18	2.08	3.1E+02	-4.88
	14	10.39	1.85	2.5E+02	9.89	2.01	3.3E+02	-4.77
	15	10.63	1.91	2.5E+02	10.11	2.06	3.2E+02	-4.90
	16	10.65	1.91	2.5E+02	10.12	2.05	3.2E+02	-4.92
	17	10.56	1.89	2.5E+02	10.05	2.05	3.1E+02	-4.81
	18	10.73	1.91	2.5E+02	10.20	2.08	3.2E+02	-4.93
	19	10.39	1.85	2.5E+02	9.90	2.01	3.1E+02	-4.74
	20	10.68	1.91	2.4E+02	10.16	2.06	3.1E+02	-4.88
	21	10.50	1.89	2.5E+02	10.00	2.02	3.1E+02	-4.76
	22	10.67	1.90	2.5E+02	10.15	2.05	3.0E+02	-4.80
	23	10.70	1.90	2.4E+02	10.18	2.05	3.1E+02	-4.84
	24	10.65	1.91	2.4E+02	10.13	2.06	3.0E+02	-4.90
	25	10.38	1.85	2.5E+02	9.89	2.00	3.1E+02	-4.73
	26	10.40	1.88	2.5E+02	9.90	2.03	3.2E+02	-4.77
	27	10.50	1.93	2.5E+02	10.00	2.05	3.2E+02	-4.77
	28	10.70	1.89	2.5E+02	10.18	2.03	3.0E+02	-4.82
	29	10.63	1.90	2.5E+02	10.12	2.03	3.0E+02	-4.82
	30	10.55	1.87	2.5E+02	10.05	2.00	3.1E+02	-4.74
B	1	10.46	1.92	2.6E+02	9.95	2.06	3.3E+02	-4.90
	2	10.44	1.95	2.7E+02	9.92	2.05	3.5E+02	-4.96
	3	10.58	1.93	2.6E+02	10.04	2.11	3.3E+02	-5.04
	4	10.43	1.91	2.5E+02	9.92	2.01	3.2E+02	-4.89
	5	10.56	1.97	2.6E+02	10.03	2.17	3.3E+02	-5.02
	6	10.71	1.96	2.5E+02	10.17	2.22	3.3E+02	-5.02
	7	10.53	1.99	2.5E+02	10.01	2.22	3.4E+02	-4.94
	8	10.64	2.03	2.5E+02	10.10	2.17	3.3E+02	-5.02
	9	10.55	1.97	2.6E+02	10.02	2.14	3.4E+02	-4.96
	10	10.54	1.92	2.6E+02	10.03	2.14	3.3E+02	-4.85
	11	10.58	1.95	2.7E+02	10.06	2.22	3.5E+02	-4.89
	12	10.44	1.96	2.6E+02	9.92	2.23	3.4E+02	-4.90
	13	10.36	1.94	2.6E+02	9.87	2.09	3.4E+02	-4.75
	14	10.40	1.90	2.5E+02	9.91	2.21	3.5E+02	-4.74
	15	10.48	1.92	2.7E+02	9.98	2.16	3.2E+02	-4.81
	16	10.54	1.92	2.6E+02	10.03	2.10	3.3E+02	-4.81
	17	10.64	1.96	2.7E+02	10.11	2.17	3.4E+02	-4.91
	18	10.47	1.93	2.6E+02	9.96	2.28	3.6E+02	-4.82
	19	10.47	1.93	2.5E+02	9.97	2.12	3.3E+02	-4.84
	20	10.69	1.96	2.5E+02	10.17	2.09	3.2E+02	-4.91
	21	10.58	1.92	2.5E+02	10.08	2.20	3.2E+02	-4.70
	22	10.70	1.93	2.5E+02	10.18	2.15	3.1E+02	-4.84
	23	10.33	1.91	2.6E+02	9.85	2.09	3.2E+02	-4.70
	24	10.61	2.24	2.5E+02	10.09	2.12	3.3E+02	-4.84
	25	10.42	2.07	2.5E+02	9.93	2.11	3.2E+02	-4.71
	26	10.44	1.93	2.6E+02	9.95	2.15	3.2E+02	-4.74
	27	10.67	2.03	2.5E+02	10.16	2.22	3.2E+02	-4.81
	28	10.58	1.96	2.5E+02	10.08	2.17	3.2E+02	-4.71
	29	10.60	1.95	2.5E+02	10.09	2.11	3.2E+02	-4.75
	30	10.39	1.91	2.5E+02	9.90	2.10	3.2E+02	-4.69
C	1	10.49	1.91	2.6E+02	9.97	2.08	3.3E+02	-4.89
	2	10.28	1.92	2.8E+02	9.78	2.10	3.5E+02	-4.86
	3	10.52	1.92	2.6E+02	10.01	2.15	3.4E+02	-4.89
	4	10.50	1.95	2.6E+02	9.99	2.22	3.3E+02	-4.93
	5	10.60	2.02	2.5E+02	10.07	2.12	3.3E+02	-4.93
	6	10.61	1.98	2.6E+02	10.08	2.19	3.3E+02	-4.98
	7	10.52	1.92	2.6E+02	10.01	2.20	3.2E+02	-4.84
	8	10.57	1.94	2.6E+02	10.05	2.18	3.3E+02	-4.87
	9	10.54	1.91	2.5E+02	10.04	2.13	3.2E+02	-4.75
	10	10.57	1.94	2.6E+02	10.06	2.17	3.4E+02	-4.81
	11	10.55	2.00	2.6E+02	10.04	2.16	3.5E+02	-4.85
	12	10.51	1.91	2.6E+02	10.01	2.19	3.2E+02	-4.76
	13	10.65	1.96	2.6E+02	10.14	2.13	3.4E+02	-4.87
	14	10.46	1.90	2.5E+02	9.96	2.04	3.4E+02	-4.80
	15	10.66	1.94	2.5E+02	10.15	2.08	3.3E+02	-4.85
	16	10.63	1.96	2.7E+02	10.12	2.13	3.4E+02	-4.77
	17	10.39	1.92	2.7E+02	9.89	2.11	3.5E+02	-4.74
	18	10.65	1.95	2.6E+02	10.13	2.26	3.3E+02	-4.86
	19	10.65	1.94	2.5E+02	10.14	2.18	3.1E+02	-4.76
	20	10.61	1.90	2.5E+02	10.11	2.16	3.1E+02	-4.69
	21	10.66	1.95	2.5E+02	10.16	2.16	3.2E+02	-4.74
	22	10.45	1.94	2.5E+02	9.97	2.13	3.2E+02	-4.64
	23	10.43	1.88	2.5E+02	9.94	2.10	3.2E+02	-4.64
	24	10.50	1.92	2.6E+02	10.00	2.10	3.2E+02	-4.73
	25	10.43	1.91	2.5E+02	9.94	2.13	3.2E+02	-4.70
	26	10.51	1.90	2.5E+02	10.02	2.07	3.1E+02	-4.72
	27	10.54	1.93	2.5E+02	10.04	2.10	3.1E+02	-4.68
	28	10.71	1.94	2.5E+02	10.20	2.14	3.1E+02	-4.71
	29	10.69	1.95	2.5E+02	10.18	2.11	3.1E+02	-4.74
	30	10.56	1.93	2.5E+02	10.06	2.12	3.1E+02	-4.69

AEC-Q200 Summary of Test Results

	Murata P/N: GCJ32ER71E106KA18
Manufacturing Location: Philippine Manufacturing Co. of Murata	Lot No: A
Date before test: 2025/5/13	Date after test: 2025/5/16

#15 - Resistance to Soldering Heat

Test conditions : Soldering , 260deg C,10sec, immersion

Number of Samples: 30 Number of Lots: 1	Number of failures: 0

Lot No	Sample	Result
A	1	No failure
	2	No failure
	3	No failure
	4	No failure
	5	No failure
	6	No failure
	7	No failure
	8	No failure
	9	No failure
	10	No failure
	11	No failure
	12	No failure
	13	No failure
	14	No failure
	15	No failure
	16	No failure
	17	No failure
	18	No failure
	19	No failure
	20	No failure
	21	No failure
	22	No failure
	23	No failure
	24	No failure
	25	No failure
	26	No failure
	27	No failure
	28	No failure
	29	No failure
	30	No failure

AEC-Q200 Summary of Test Results

	Murata P/N: GCJ32ER71E106KA18
Manufacturing Location: Philippine Manufacturing Co. of Murata	Lot No: A
Date before test: 2025/5/13	

#18 - Solderability

Test conditions : (a) Preheat at 155℃ for 4h. After preheating, immerse the capacitor in a solution of rosin ethanol 25(mass)%. Immerse in Sn-3.0Ag-0.5Cu solder solution at 245+/-5℃ for 5+0/-0.5s.

Number of Samples: 15 Number of Lots: 1		Number of failures: 0
Test No.	Sample	Result (pass/fail)
A	1	pass
	2	pass
	3	pass
	4	pass
	5	pass
	6	pass
	7	pass
	8	pass
	9	pass
	10	pass
	11	pass
	12	pass
	13	pass
	14	pass
	15	pass

AEC-Q200 Summary of Test Results

	Murata P/N: GCJ32ER71E106KA18
Manufacturing Location: Philippine Manufacturing Co. of Murata	Lot No: A,B,C
Date before test: 2025/5/13	Date after test: 2025/5/16

#19 - Electrical Characterization

		Test conditions :1.0+/-0.1kHz, 1.0+/-0.2Vrms(Electrical Characterization)				*Test conditions :1.0+/-0.1kHz, 0.01Vrms(Temperature Characteristics)*				
Number of Samples: 30 Number of Lots: 3		Electrical Characterization				Temperature characteristic at 25C	Temperature characteristic at -55C		Temperature characteristic at 125C	
		Capacitance uF	Dissipation Factor %	IR 25C Mohm	IR 125C Mohm	Capacitance uF	Capacitance uF	Change in capacitance %	Capacitance uF	Change in capacitance %
Spec limits	lower	9.00		5.0E+01	1.0E+00			-15.00		-15.00
	upper	11.00	5.00					15.00		15.00
Measurement Statistics	mean	9.871	0.834	2.4E+02	1.6E+01	9.871	9.191	-6.891	8.852	-10.324
	maximum	10.18	3.60	3.0E+02	2.2E+01	10.18	9.48	-6.51	9.10	-9.49
	minimum	9.51	0.01	2.0E+02	1.2E+01	9.51	8.86	-7.37	8.53	-10.93
	standard dev.	0.1629	0.7072	3.5E+01	2.5E+00	0.1629	0.1476	0.1853	0.1377	0.3120
Lot No	Sample	Capacitance uF	Dissipation Factor %	IR 25C Mohm	IR 125C Mohm	Capacitance uF	Capacitance uF	Change in capacitance %	Capacitance uF	Change in capacitance %
A	1	9.82	0.34	3.0E+02	1.6E+01	9.82	9.17	-6.54	8.84	-9.96
	2	9.60	0.66	2.9E+02	1.7E+01	9.60	8.96	-6.68	8.64	-9.92
	3	9.76	0.47	3.0E+02	1.9E+01	9.76	9.10	-6.74	8.76	-10.22
	4	9.60	0.18	3.0E+02	1.9E+01	9.60	8.95	-6.73	8.62	-10.16
	5	9.54	0.24	3.0E+02	1.9E+01	9.54	8.89	-6.78	8.56	-10.21
	6	9.79	0.19	3.0E+02	2.0E+01	9.79	9.14	-6.63	8.77	-10.41
	7	9.61	0.52	3.0E+02	2.0E+01	9.61	8.97	-6.61	8.63	-10.16
	8	9.73	0.12	2.8E+02	2.0E+01	9.73	9.05	-6.95	8.72	-10.39
	9	9.71	0.35	3.0E+02	2.1E+01	9.71	9.06	-6.69	8.70	-10.38
	10	9.78	0.75	3.0E+02	2.0E+01	9.78	9.12	-6.77	8.78	-10.27
	11	9.77	0.71	2.8E+02	2.0E+01	9.77	9.10	-6.85	8.75	-10.47
	12	9.51	1.40	3.0E+02	2.0E+01	9.51	8.86	-6.82	8.53	-10.26
	13	9.55	0.01	2.8E+02	2.0E+01	9.55	8.89	-6.86	8.56	-10.35
	14	9.66	0.59	2.9E+02	2.0E+01	9.66	9.00	-6.79	8.66	-10.34
	15	9.88	0.43	2.9E+02	2.0E+01	9.88	9.22	-6.68	8.82	-10.74
	16	9.84	0.91	2.9E+02	2.0E+01	9.84	9.16	-6.88	8.79	-10.69
	17	9.84	0.47	3.0E+02	2.0E+01	9.84	9.17	-6.79	8.81	-10.45
	18	9.69	0.37	2.9E+02	1.7E+01	9.69	9.05	-6.69	8.69	-10.38
	19	9.72	0.25	2.9E+02	1.5E+01	9.72	9.06	-6.73	8.70	-10.42
	20	9.82	0.69	3.0E+02	1.7E+01	9.82	9.13	-6.97	8.76	-10.77
	21	9.79	0.62	2.9E+02	1.8E+01	9.79	9.10	-7.03	8.75	-10.59
	22	9.83	0.94	2.8E+02	1.7E+01	9.83	9.16	-6.86	8.79	-10.56
	23	9.81	0.42	3.0E+02	1.9E+01	9.81	9.14	-6.88	8.78	-10.54
	24	9.75	1.51	2.9E+02	2.0E+01	9.75	9.09	-6.81	8.75	-10.31
	25	9.54	0.46	2.9E+02	2.0E+01	9.54	8.90	-6.71	8.57	-10.15
	26	9.70	0.15	2.4E+02	2.2E+01	9.70	9.02	-7.04	8.67	-10.62
	27	9.56	0.17	2.6E+02	2.0E+01	9.56	8.91	-6.80	8.58	-10.31
	28	9.84	0.68	2.8E+02	2.1E+01	9.84	9.16	-6.95	8.80	-10.63
	29	9.52	0.83	2.9E+02	2.2E+01	9.52	8.87	-6.84	8.55	-10.12
	30	9.73	0.53	2.8E+02	2.2E+01	9.73	9.06	-6.81	8.73	-10.24
B	1	10.12	0.08	2.1E+02	1.3E+01	10.12	9.43	-6.78	9.09	-10.15
	2	10.04	0.57	2.2E+02	1.5E+01	10.04	9.35	-6.82	9.00	-10.36
	3	10.07	0.52	2.1E+02	1.4E+01	10.07	9.38	-6.82	9.03	-10.34
	4	10.02	0.71	2.2E+02	1.5E+01	10.02	9.34	-6.82	8.97	-10.48
	5	9.88	0.64	2.1E+02	1.5E+01	9.88	9.18	-7.02	8.85	-10.43
	6	10.14	0.83	2.1E+02	1.6E+01	10.14	9.45	-6.88	9.06	-10.65
	7	10.06	0.08	2.2E+02	1.6E+01	10.06	9.37	-6.85	8.99	-10.67
	8	9.99	0.26	2.1E+02	1.5E+01	9.99	9.29	-7.07	8.93	-10.63
	9	9.78	0.05	2.2E+02	1.7E+01	9.78	9.08	-7.09	8.76	-10.36
	10	9.95	0.64	2.2E+02	1.6E+01	9.95	9.25	-7.08	8.89	-10.64
	11	9.86	0.59	2.1E+02	1.5E+01	9.86	9.16	-7.08	8.83	-10.51
	12	9.91	0.69	2.2E+02	1.6E+01	9.91	9.21	-7.04	8.88	-10.36
	13	9.96	0.10	2.1E+02	1.5E+01	9.96	9.25	-7.08	8.89	-10.78
	14	10.05	0.14	2.2E+02	1.5E+01	10.05	9.36	-6.92	8.97	-10.72
	15	10.04	0.63	2.2E+02	1.4E+01	10.04	9.33	-7.01	8.97	-10.65
	16	10.11	0.56	2.1E+02	1.5E+01	10.11	9.40	-7.02	9.03	-10.74
	17	9.96	0.33	2.0E+02	1.4E+01	9.96	9.26	-7.06	8.90	-10.72
	18	10.08	1.66	2.4E+02	1.4E+01	10.08	9.37	-7.05	8.99	-10.85
	19	10.13	0.34	2.4E+02	1.2E+01	10.13	9.41	-7.02	9.02	-10.93
	20	10.00	0.72	2.4E+02	1.3E+01	10.00	9.31	-6.90	8.94	-10.63
	21	10.00	0.43	2.4E+02	1.4E+01	10.00	9.30	-6.99	8.94	-10.60
	22	10.02	0.31	2.2E+02	1.4E+01	10.02	9.33	-6.93	8.96	-10.63
	23	10.18	0.21	2.2E+02	1.5E+01	10.18	9.48	-6.90	9.10	-10.65
	24	10.05	0.50	2.1E+02	1.5E+01	10.05	9.36	-6.93	8.99	-10.60
	25	10.05	0.59	2.1E+02	1.5E+01	10.05	9.36	-6.94	8.99	-10.56
	26	10.02	0.13	2.4E+02	1.5E+01	10.02	9.33	-6.94	8.98	-10.41
	27	10.09	0.52	2.0E+02	1.5E+01	10.09	9.40	-6.88	9.03	-10.53
	28	10.05	2.28	2.4E+02	1.5E+01	10.05	9.35	-6.92	8.98	-10.65
	29	10.01	0.39	2.5E+02	1.6E+01	10.01	9.33	-6.80	8.96	-10.50
	30	10.09	0.03	2.1E+02	1.6E+01	10.09	9.41	-6.72	9.04	-10.41
C	1	9.94	1.77	2.1E+02	1.3E+01	9.94	9.27	-6.83	8.97	-9.83
	2	10.08	2.06	2.2E+02	1.5E+01	10.08	9.37	-6.96	9.08	-9.90
	3	10.12	2.00	2.1E+02	1.4E+01	10.12	9.43	-6.86	9.10	-10.12
	4	9.67	1.87	2.2E+02	1.5E+01	9.67	9.00	-6.96	8.73	-9.71
	5	9.92	1.58	2.1E+02	1.5E+01	9.92	9.21	-7.15	8.91	-10.18
	6	9.87	2.44	2.1E+02	1.6E+01	9.87	9.16	-7.19	8.87	-10.12
	7	9.88	1.44	2.2E+02	1.6E+01	9.88	9.20	-6.91	8.89	-10.06
	8	9.94	3.23	2.1E+02	1.5E+01	9.94	9.24	-7.08	8.93	-10.20
	9	9.95	1.68	2.2E+02	1.7E+01	9.95	9.23	-7.14	8.92	-10.35
	10	9.92	2.41	2.2E+02	1.6E+01	9.92	9.20	-7.21	8.91	-10.15
	11	9.89	1.20	2.1E+02	1.5E+01	9.89	9.18	-7.23	8.85	-10.51
	12	9.76	1.43	2.2E+02	1.6E+01	9.76	9.05	-7.30	8.76	-10.26
	13	9.82	0.70	2.1E+02	1.5E+01	9.82	9.12	-7.08	8.83	-10.09
	14	9.89	0.54	2.2E+02	1.5E+01	9.89	9.19	-7.06	8.88	-10.17
	15	9.86	1.93	2.2E+02	1.4E+01	9.86	9.15	-7.22	8.84	-10.37
	16	9.84	3.60	2.1E+02	1.5E+01	9.84	9.13	-7.17	8.82	-10.37
	17	9.96	1.06	2.0E+02	1.4E+01	9.96	9.22	-7.37	8.90	-10.60
	18	9.99	1.44	2.4E+02	1.4E+01	9.99	9.30	-6.91	8.98	-10.08
	19	9.88	1.62	2.4E+02	1.2E+01	9.88	9.18	-7.08	8.88	-10.16
	20	9.88	0.95	2.4E+02	1.3E+01	9.88	9.19	-6.99	8.88	-10.14
	21	9.81	1.09	2.4E+02	1.4E+01	9.81	9.14	-6.74	8.84	-9.84
	22	9.94	0.81	2.2E+02	1.4E+01	9.94	9.27	-6.70	8.97	-9.79
	23	9.77	1.17	2.2E+02	1.5E+01	9.77	9.12	-6.64	8.82	-9.76
	24	9.82	1.05	2.1E+02	1.5E+01	9.82	9.17	-6.58	8.86	-9.75
	25	9.82	0.20	2.1E+02	1.5E+01	9.82	9.17	-6.64	8.87	-9.70
	26	9.81	0.98	2.4E+02	1.5E+01	9.81	9.17	-6.53	8.85	-9.73
	27	9.77	0.76	2.0E+02	1.5E+01	9.77	9.12	-6.63	8.82	-9.72
	28	9.99	0.90	2.4E+02	1.5E+01	9.99	9.33	-6.60	9.00	-9.94
	29	9.76	0.24	2.5E+02	1.6E+01	9.76	9.13	-6.51	8.84	-9.49
	30	9.87	0.97	2.1E+02	1.6E+01	9.87	9.22	-6.62	8.89	-9.92

AEC-Q200 Summary of Test Results

	Murata P/N: GCJ32ER71E106KA18
Manufacturing Location: Philippine Manufacturing Co. of Murata	Lot No: A
Date before test: 2025/3/29	Date after test: 2025/4/1

#21 - Board Flex

Test conditions : Bend board at 5mm for 60sec
pass/fail criteria : cap change within +/-10%

Test Data

Number of Samples: 30 Number of Lots: 1		Number of failures: 0
Lot No	Sample	Result (pass/fail)
A	1	pass
	2	pass
	3	pass
	4	pass
	5	pass
	6	pass
	7	pass
	8	pass
	9	pass
	10	pass
	11	pass
	12	pass
	13	pass
	14	pass
	15	pass
	16	pass
	17	pass
	18	pass
	19	pass
	20	pass
	21	pass
	22	pass
	23	pass
	24	pass
	25	pass
	26	pass
	27	pass
	28	pass
	29	pass
	30	pass

AEC-Q200 Summary of Test Results

	Murata P/N: GCJ32ER71E106KA18
Manufacturing Location: Philippine Manufacturing Co. of Murata	Lot No: A
Date before test: 2025/3/24	Date after test: 2025/4/2

#22 - Terminal Strength

Test conditions : Force of 18N for 60sec

Number of Samples: 30 Number of Lots: 1	Number of failures: 0

Lot No	Sample	Result (pass/fail)
A	1	pass
	2	pass
	3	pass
	4	pass
	5	pass
	6	pass
	7	pass
	8	pass
	9	pass
	10	pass
	11	pass
	12	pass
	13	pass
	14	pass
	15	pass
	16	pass
	17	pass
	18	pass
	19	pass
	20	pass
	21	pass
	22	pass
	23	pass
	24	pass
	25	pass
	26	pass
	27	pass
	28	pass
	29	pass
	30	pass

AEC-Q200 Summary of Test Results

	Murata P/N: GCJ32ER71E106KA18
Manufacturing Location: Philippine Manufacturing Co. of Murata	Lot No: A
Date before test: 2025/3/11	Date after test: 2025/3/11

#23 - Beam Load

Test conditions : Apply a force until the part brakes
Pass/fail criteria : More than 54.5N

Number of Samples: 30 Number of Lots: 1		Number of failures: 0
Lot No	Sample	Result (pass/fail)
A	1	pass
	2	pass
	3	pass
	4	pass
	5	pass
	6	pass
	7	pass
	8	pass
	9	pass
	10	pass
	11	pass
	12	pass
	13	pass
	14	pass
	15	pass
	16	pass
	17	pass
	18	pass
	19	pass
	20	pass
	21	pass
	22	pass
	23	pass
	24	pass
	25	pass
	26	pass
	27	pass
	28	pass
	29	pass
	30	pass

Cpk data

		Murata P/N: GCJ32ER71E106KA18	
Manufacturing Location: Philippine Manufacturing Co. of Murata		Lot No: A	
Content	L (mm)	W (mm)	T (mm)
No.1	3.39	2.58	2.50
2	3.36	2.56	2.51
3	3.38	2.57	2.51
4	3.40	2.58	2.51
5	3.39	2.56	2.51
6	3.38	2.57	2.50
7	3.39	2.57	2.50
8	3.38	2.58	2.51
9	3.38	2.59	2.50
10	3.38	2.57	2.50
11	3.37	2.57	2.50
12	3.39	2.59	2.50
13	3.39	2.58	2.50
14	3.41	2.57	2.50
15	3.39	2.56	2.50
16	3.37	2.57	2.51
17	3.37	2.56	2.49
18	3.37	2.60	2.52
19	3.38	2.57	2.50
20	3.38	2.57	2.52
21	3.36	2.57	2.50
22	3.39	2.56	2.50
23	3.40	2.56	2.51
24	3.39	2.58	2.50
25	3.40	2.58	2.51
26	3.40	2.57	2.51
27	3.39	2.58	2.51
28	3.39	2.56	2.48
29	3.39	2.57	2.50
30	3.40	2.61	2.50
31	3.41	2.57	2.49
32	3.38	2.58	2.50
33	3.38	2.58	2.51
34	3.39	2.56	2.50
35	3.40	2.56	2.50
36	3.39	2.58	2.50
37	3.36	2.58	2.50
38	3.39	2.57	2.50
39	3.40	2.57	2.48
40	3.39	2.57	2.51
41	3.37	2.58	2.51
42	3.39	2.57	2.49
43	3.38	2.57	2.50
44	3.39	2.57	2.49
45	3.39	2.58	2.52
46	3.38	2.58	2.52
47	3.39	2.55	2.50
48	3.39	2.59	2.50
49	3.40	2.57	2.50
50	3.39	2.57	2.51
51	3.38	2.57	2.49
52	3.37	2.58	2.49
53	3.39	2.57	2.49
54	3.38	2.56	2.49
55	3.40	2.58	2.50
56	3.40	2.58	2.51
57	3.40	2.56	2.51
58	3.39	2.57	2.48
59	3.40	2.56	2.49
60	3.39	2.57	2.52
61	3.37	2.57	2.50
62	3.39	2.57	2.51
63	3.36	2.57	2.50
64	3.40	2.57	2.51
65	3.38	2.57	2.49
66	3.40	2.56	2.50
67	3.38	2.58	2.51
68	3.39	2.56	2.48
69	3.41	2.57	2.50
70	3.39	2.58	2.50
71	3.40	2.58	2.50
72	3.40	2.58	2.49
73	3.39	2.58	2.50
74	3.40	2.58	2.50
75	3.38	2.57	2.48
76	3.37	2.55	2.50
77	3.39	2.57	2.51
78	3.40	2.57	2.49
79	3.41	2.58	2.48
80	3.39	2.58	2.51
81	3.39	2.58	2.51
82	3.40	2.57	2.49
83	3.38	2.57	2.50
84	3.39	2.57	2.50
85	3.38	2.57	2.50
86	3.36	2.57	2.50
87	3.39	2.57	2.51
88	3.40	2.57	2.50
89	3.38	2.57	2.50
90	3.38	2.58	2.51
91	3.40	2.58	2.50
92	3.38	2.57	2.49
93	3.36	2.58	2.50
94	3.38	2.58	2.51
95	3.40	2.57	2.50
96	3.38	2.58	2.49
97	3.38	2.57	2.50
98	3.39	2.57	2.51
99	3.42	2.57	2.49
100	3.40	2.57	2.50
Average	3.387	2.572	2.500
Std dev	0.0119	0.0085	0.0091
MAX	3.42	2.61	2.52
MIN	3.36	2.55	2.48
Cpk	5.96	8.90	11.04
SL	2.80	2.20	2.20
SU	3.60	2.80	2.80

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Test Sheet of Chip Multilayer Ceramic Capacitor
GCJ21(2012M/0805) series [High Dielectric Type]

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Typical Murata Global Part No	Size (mm/inch)	Temp. Chara.	Cap.Value	Cap.Tol.	Volt.
GCJ21BR71H105KA01_ Murata Philippines	2012M/0805	X7R	1uF	+/-10%	50V
GCJ21BR71H105KA01 _Murata Japan	2012M/0805	X7R	1uF	+/-10%	50V

Data No.:QMC-G-I0117
DATE: 2025.7.3

Murata Manufacturing Co., Ltd.

Operating Temperature Range / 使用温度範囲： -55 ~ +125℃

Tested Item/ 試験項目	Tested Condition/ 試験条件	Result/試験結果 (Rejection Number/Sample Number)	
1.Terminal Strength / 端子電極固着力	Substrate/基板 : Glass-epoxy Pressurization Power / 加圧力 : 18N (GCM03/15 : 2N) Keeping Time / 保持時間 : 60s	0/10	0/10
2.Vibration / 耐振性	Oscillation Frequency/振動周波数 : 10Hz to 2000Hz to 10Hz for 20min Total Amplitude/全振幅 : 1.5 mm Times/回数 : A period of 12 times in each 3 mutually perpendicular directions. (Total 36 times)	0/10	0/10
3.Board Flex / 耐基板曲げ性	Substrate/基板 : Glass-epoxy (100mm × 40mm × 1.6mm*) * GCM03/15 : t=0.8mm Flexure/たわみ量 : 5mm（High Dielectric Type/高誘電率系） Keeping Time/保持時間 : 60s Pressure jig/加圧治具 : R4mm	0/10	0/10
4.Solderability of Termination / はんだ付け性	Solder/はんだ : Sn-3.0Ag-0.5Cu（無鉛はんだ） PRE-CONDITION: 1. 155 deg.C, 4h; SOLDER TEMPERATURE: 245 +/- 5 deg. C; IMMERSION TIME: 5+0/-0.5s	0/10	0/10
5.Resistance to Soldering Heat/ はんだ耐熱性	Solder Temperature/はんだ温度 : 260±5 °C Immersion Time/浸せき時間 : 10±1s Set at room temperature/放置時間 : 24±2 h Preheating/試験前予熱 : 150+0/-10 °C for 1h （High Dielectric Type/高誘電率系）	0/10	0/10
6.Temperature Cycling / 温度ｻｲｸﾙ	Step / Time(min) / Cycles: 1000(for R7) / 300(for L8/R9) 1: 30+/-3: -55°C+0/-3: -55°C+0/-3 2: 1: Room: Room 3: 30+/-3: 125°C+3/-0: 150°C+3/-0 4: 1: Room: Room Preheating/試験前予熱 : 150+0/-10℃ for 1h (for High Dielectric Type)	0/10	0/10
7.Moisture Resistance/ 耐湿性	Temperature/温度 : 25 to 65℃ Humidity/湿度 : 80 to 98%RH Time/時間 : One cycle 24h, 10 consecutive times	0/10	0/10
8.Biased Humidity/ 耐湿負荷	Temperature/温度 : 85±3℃ Humidity/湿度 : 80 to 85%RH Voltage/電圧 : (1) Rated Voltage / 定格電圧 (2) 1.3+0.2/-0Vdc Time/時間 : 1000±12h	0/10	0/10
9.Operational Life/ 高温負荷	Temperature/温度 : Max. Operating Temp.±3℃ Voltage/電圧 : Apply 150% of the rated voltage / 定格電圧 x 150% Time/時間 : 1000±12h	0/10	0/10

Note: These tested condition and specification are for the typical item.

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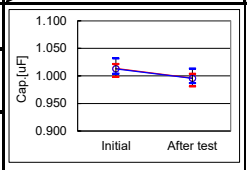
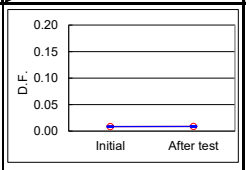
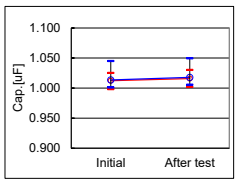
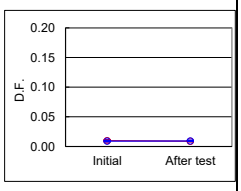
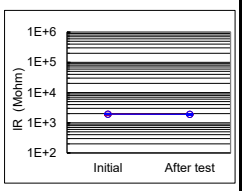
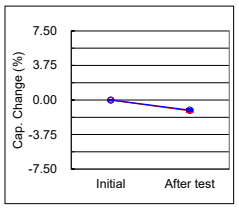
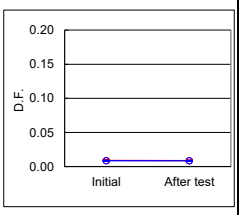
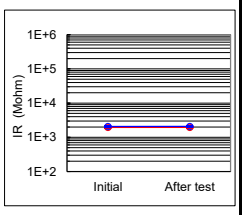
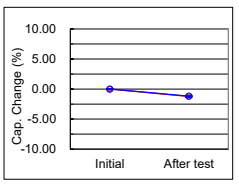
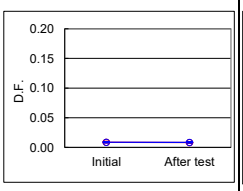
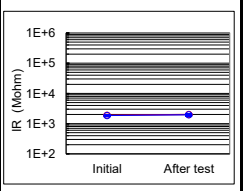
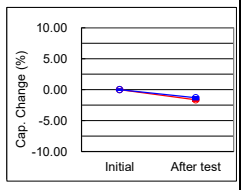
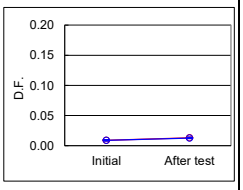
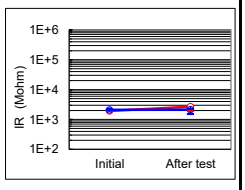
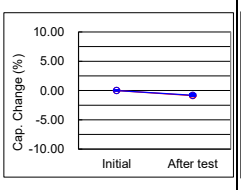
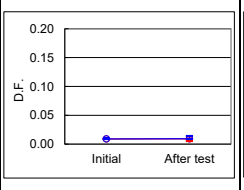
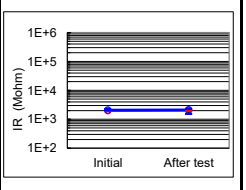
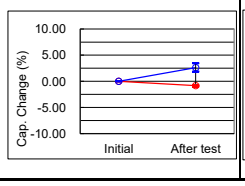
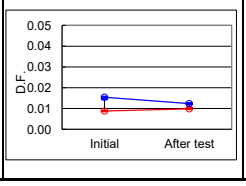
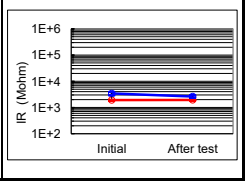
Test Result/試験結果データ

Data No.:QMC-G-I0117

Typical Murata Global Part No	Size (mm/inch)	Temp. Chara.	Cap.Value	Cap.Tol.	Volt.
GCJ21BR71H105KA01_ Murata Philippines	2012M/0805	X7R	1uF	+/-10%	50V
GCJ21BR71H105KA01 _Murata Japan	2012M/0805	X7R	1uF	+/-10%	50V

AVE. MAX. MIN.
AVE. MAX. MIN.

Tested Item/ 試験項目	Confirmed Criteria/ 評価項目	Specification and Result / 規格値 および 試験結果		
1.Terminal Strength /固着性	Appearance/外観	No defects including no peeling of the termination. 端子電極のはく離及びその他異常はありません。	OK	
2.Vibration/ 耐振性	Appearance/外観	No defects /著しい異常はありません。	OK	 
	Capacitance/ 静電容量	0.9 to 1.1uF		
	D.F.	0.1(max.)		
3.Board Flex / 耐基板曲げ性	Appearance/外観	No defects /著しい異常はありません。	OK	
	Capacitance Change/ 静電容量変化率(%)	±10% (within)	OK	
4.Solderability / はんだ付け性	Wetting area/ はんだ付き面積	95% of the termination is to be soldered evenly and continuously./ 端子電極の95%以上に切れ目なくはんだが付着しています。	OK	
5.Resistance to Soldering Heat/ はんだ耐熱性	Appearance/外観	No defects /著しい異常はありません。	OK	  
	Capacitance/ 静電容量	0.9 to 1.1uF		
	D.F.	0.05(max.)		
	IR/絶縁抵抗(MΩ)	5.0E+02(min.)		
6.Temperature Cycling/ 温度ｻｲｸﾙ	Appearance/外観	No defects /著しい異常はありません。	OK	  
	Capacitance Change/ 静電容量変化率(%)	±7.5% (within)		
	D.F.	0.05(max.)		
	IR/絶縁抵抗(MΩ)	5.0E+02(min.)		
7.Moisture Resistance/ 耐湿性	Appearance/外観	No defects /著しい異常はありません。	OK	  
	Capacitance Change/ 静電容量変化率(%)	±10% (within)		
	D.F.	0.05(max.)		
	IR/絶縁抵抗(MΩ)	5.0E+02(min.)		
8.Biased Humidity/ 耐湿負荷(1)	Appearance/外観	No defects /著しい異常はありません。	OK	  
	Capacitance Change/ 静電容量変化率(%)	±12.5% (within)		
	D.F.	0.05 (max.)		
	IR/絶縁抵抗(MΩ)	5.0E+01(min.)		
8.Biased Humidity/ 耐湿負荷(2)	Appearance/外観	No defects /著しい異常はありません。	OK	  
	Capacitance Change/ 静電容量変化率(%)	±12.5% (within)		
	D.F.	0.05(max.)		
	IR/絶縁抵抗(MΩ)	5.0E+01(min.)		
9.Operational Life/ 高温負荷	Appearance/外観	No defects /著しい異常はありません。	OK	  
	Capacitance Change/ 静電容量変化率(%)	±12.5% (within)		
	D.F.	0.05 (max.)		
	IR/絶縁抵抗(MΩ)	5.0E+01(min.)		

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Test Sheet of Chip Multilayer Ceramic Capacitor
GCJ32(3225M/1210) series [High Dielectric Type]

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Typical Murata Global Part No	Size (mm/inch)	Temp. Chara.	Cap.Value	Cap.Tol.	Volt.
GCJ32ER71E106KA18_ Murata Philippines	3225M/1210	X7R	10uF	+/-10%	25V
GCJ32ER71E106KA18_ Murata Japan	3225M/1210	X7R	10uF	+/-10%	25V

Data No.:QMC-G-I0113
DATE: 2025.6.16

Murata Manufacturing Co., Ltd.

Operating Temperature Range / 使用温度範囲： -55 ~ +125℃

Tested Item/ 試験項目	Tested Condition/ 試験条件	Result/試験結果 (Rejection Number/Sample Number)	
1.Terminal Strength / 端子電極固着力	Substrate/基板 : Glass-epoxy Pressurization Power / 加圧力 : 18N (GCM03/15 : 2N) Keeping Time / 保持時間 : 60s	0/30	0/30
2.Vibration / 耐振性	Oscillation Frequency/振動周波数 : 10Hz to 2000Hz to 10Hz for 20min Total Amplitude/全振幅 : 1.5 mm Times/回数 : A period of 12 times in each 3 mutually perpendicular directions. (Total 36 times)	0/30	0/30
3.Board Flex / 耐基板曲げ性	Substrate/基板 : Glass-epoxy (100mm × 40mm × 1.6mm*) * GCM03/15 : t=0.8mm Flexure/たわみ量 : 5mm (High Dielectric Type/高誘電率系) Keeping Time/保持時間 : 60s Pressure jig/加圧治具 : R4mm	0/30	0/30
4.Solderability / はんだ付け性	Solder/はんだ : Sn-3.0Ag-0.5Cu (無鉛はんだ) PRE-CONDITION: 1. 155 deg.C, 4h / SOLDER TEMPERATURE: 245 +/- 5 deg. C / IMMERSION TIME: 5+0/-0.5s	0/30	0/30
5.Resistance to Soldering Heat/ はんだ耐熱性	Solder Temperature/はんだ温度 : 260±5℃ Immersion Time/浸せき時間 : 10±1s Set at room temperature/放置時間 : 24±2 h Preheating/試験前予熱 : 150+0/-10 °C for 1h (High Dielectric Type/高誘電率系)	0/30	0/30
6.Temperature Cycling/ 温度ｻｲｸﾙ	Step / Time(min) / Cycles: 1000(for R7) / 300(for L8/R9) 1: 30+/-3 / -55°C+0/-3 / -55°C+0/-3 2: 1 / Room / Room 3: 30+/-3 / 125°C+3/-0 / 150°C+3/-0 4: 1 / Room / Room Preheating/試験前予熱 : 150+0/-10℃ for 1hour (for High Dielectric Type)	0/77	0/77
7.Moisture Resistance/ 耐湿性	Temperature/温度 : 25 to 65℃ Humidity/湿度 : 80 to 98%RH Time/時間 : One cycle 24h, 10 consecutive times	0/77	0/77
8.Biased Humidity/ 耐湿負荷	Temperature/温度 : 85±3℃ Humidity/湿度 : 80 to 85%RH Voltage/電圧 : (1) Rated Voltage / 定格電圧 (2)1.3+0.2/-0Vdc Time/時間 : 1000±12h	0/77	0/77
9.Operational Life/ 高温負荷	Temperature/温度 : Max. Operating Temp.±3℃ Voltage/電圧 : Apply 200% of the rated voltage / 定格電圧 x 200% Time/時間 : 1000±12h	0/77	0/77

Note: These test condition and specification are for the typical item.

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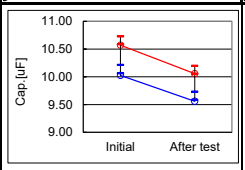
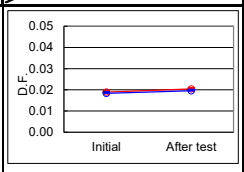
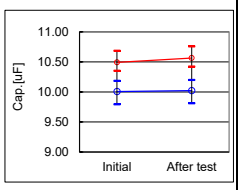
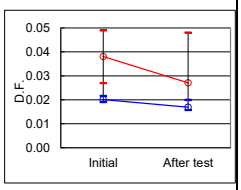
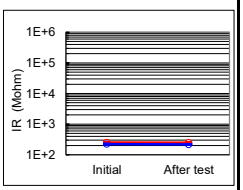
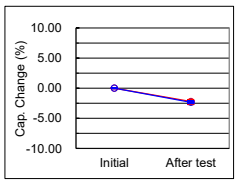
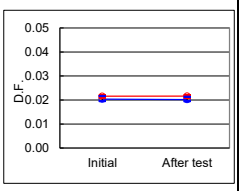
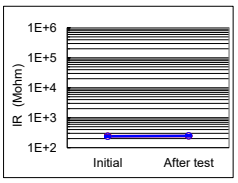
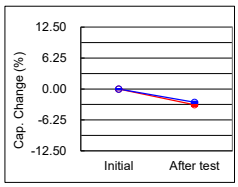
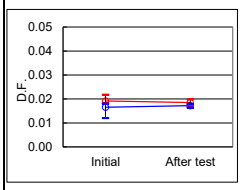
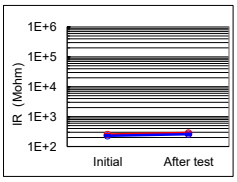
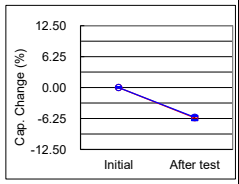
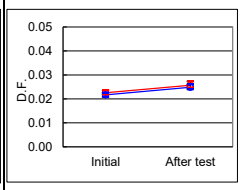
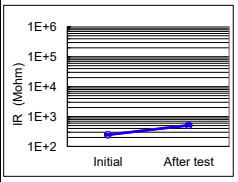
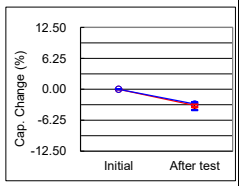
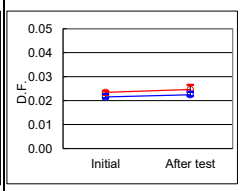
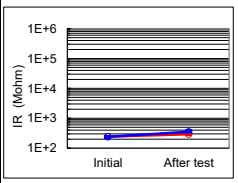
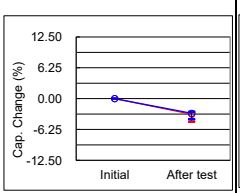
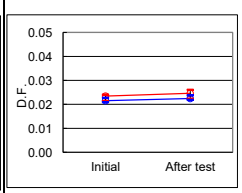
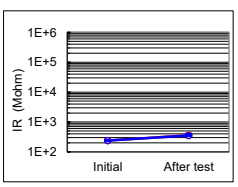
Test Result/試験結果データ

Data No.:QMC-G-I0113

Typical Murata Global Part No	Size (mm/inch)	Temp. Chara.	Cap.Value	Cap.Tol.	Volt.
GCJ32ER71E106KA18_ Murata Philippines	3225M/1210	X7R	10uF	+/-10%	25V
GCJ32ER71E106KA18_ Murata Japan	3225M/1210	X7R	10uF	+/-10%	25V

AVE. MAX. MIN.
AVE. MAX. MIN.

Tested Item/ 試験項目	Confirmed Criteria/ 評価項目	Specification and Result / 規格値 および 試験結果				
1.Terminal Strength /端子電極固着力	Appearance/外観	No defects including no peeling of the termination. 端子電極のはく離及びその他異常はありません。	OK			
2.Vibration/ 耐振性	Appearance/外観	No defects /著しい異常はありません。	OK			
	Capacitance/ 静電容量	9 to 11uF				
	D.F.	0.050 (max.)				
3.Board Flex / 耐基板曲げ性	Appearance/外観	No defects /著しい異常はありません。	OK			
	Capacitance Change/ 静電容量変化率(%)	±10% (within)	OK			
4.Solderability / はんだ付け性	Wetting area/ はんだ付き面積	95% of the termination is to be soldered evenly and continuously./ 端子電極の95%以上に切れ目なくはんだが付着しています。	OK			
5.Resistance to Soldering Heat/ はんだ耐熱性	Appearance/外観	No defects /著しい異常はありません。	OK			
	Capacitance/ 静電容量	9 to 11uF				
	D.F.	0.050 (max.)				
	IR/絶縁抵抗(MΩ)	5.0E+01(min.)				
6.Temperature Cycling/ 温度ｻｲｸﾙ	Appearance/外観	No defects /著しい異常はありません。	OK			
	Capacitance / 静電容量(%)	±7.5% (within)				
	D.F.	0.050 (max.)				
	IR/絶縁抵抗(MΩ)	5.0E+01(min.)				
7.Moisture Resistance/ 耐湿性	Appearance/外観	No defects /著しい異常はありません。	OK			
	Capacitance Change/ 静電容量変化率(%)	±10% (within)				
	D.F.	0.050 (max.)				
	IR/絶縁抵抗(MΩ)	5.0E+01(min.)				
8.Biased Humidity/ 耐湿負荷(1)	Appearance/外観	No defects /著しい異常はありません。	OK			
	Capacitance Change/ 静電容量変化率(%)	±12.5% (within)				
	D.F.	0.050 (max.)				
	IR/絶縁抵抗(MΩ)	2.5E+00(min.)				
8.Biased Humidity/ 耐湿負荷(2)	Appearance/外観	No defects /著しい異常はありません。	OK			
	Capacitance Change/ 静電容量変化率(%)	±12.5% (within)				
	D.F.	0.050 (max.)				
	IR/絶縁抵抗(MΩ)	2.5E+00(min.)				
9.Operational Life/ 高温負荷	Appearance/外観	No defects /著しい異常はありません。	OK			
	Capacitance Change/ 静電容量変化率(%)	±10% (within)				
	D.F.	0.050 (max.)				
	IR/絶縁抵抗(MΩ)	5.0E+00(min.)				

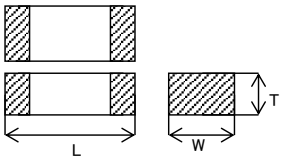
Chip Multilayer Ceramic Capacitor

Confidential

Electrical Characteristics Data

Item No.	Murata Global Part No	Size (mm/inch)	Temp. Chara.	Cap.Value	Cap.Tol.	Rated Volt.	Durability (%Rated Volt.)
Item 1	GCJ21BR71H105KA01_Murata Philippines	2012M/0805	X7R	1uF	+/-10%	50Vdc	150 %
Item 2	GCJ21BR71H105KA01_Murata Japan	2012M/0805	X7R	1uF	+/-10%	50Vdc	150 %

1. Dimension



(mm)

	L	W	T
Item 1	2.0+/-0.3	1.25+/-0.2	1.25+/-0.2
Item 2	2.0+/-0.3	1.25+/-0.2	1.25+/-0.2

2. Cap,DF,IR

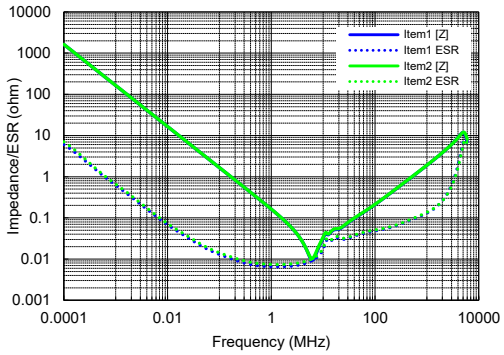
Cap.,Q/DF : 1kHz , 1Vrms 1kHz , 1Vrms

IR : 50Vdc , 120s 50Vdc, 120s

Spec	Cap.	Q/DF	IR
Item 1	0.9 to 1.1 uF	0.05(max.)	5.0E+02 (min.)Mohm
Item 2	0.9 to 1.1 uF	0.05(max.)	5.0E+02 (min.)Mohm

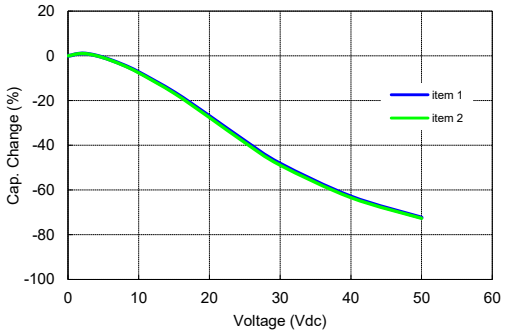
3. Impedance/ESR - Frequency

Equipment: Impedance/network analyzer



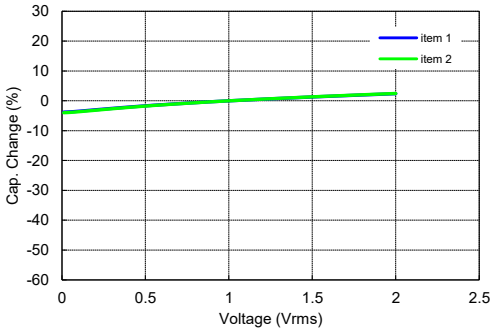
4. Capacitance - DC Voltage Characteristics

1kHz , 1Vrms Equipment: LCR meter



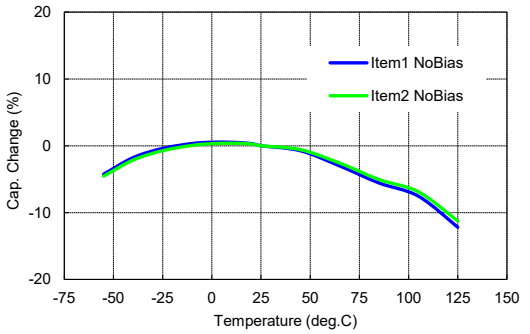
5. Capacitance - AC Voltage Characteristics

1kHz Equipment: LCR meter



6. Capacitance - Temperature Characteristics

1kHz 0.1Vrms Equipment: LCR meter



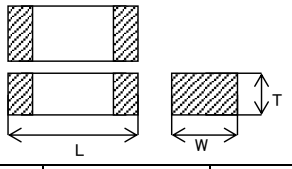
Chip Multilayer Ceramic Capacitor

Confidential

Electrical Characteristics Data

Item No.	Murata Global Part No	Size (mm/inch)	Temp. Chara.	Cap.Value	Cap.Tol.	Rated Volt.	Durability (%Rated Volt.)
Item 1	GCJ32ER71E106KA18_Murata Philippines	3225M/1210	X7R	10uF	+/-10%	25Vdc	200 %
Item 2	GCJ32ER71E106KA18_Murata Japan	3225M/1210	X7R	10uF	+/-10%	25Vdc	200 %

1. Dimension



(mm)

	L	W	T
Item 1	3.2+/-0.4	2.5+/-0.3	2.5+/-0.3
Item 2	3.2+/-0.4	2.5+/-0.3	2.5+/-0.3

2. Cap,DF,IR

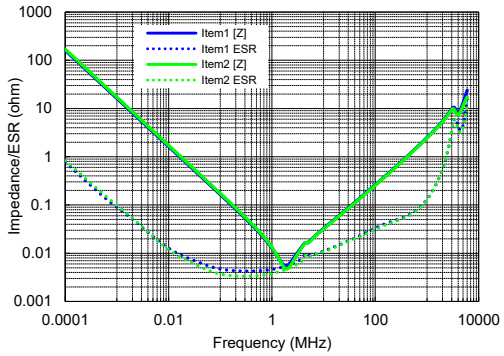
Cap.,Q/DF : 1kHz / 1Vrms 1kHz / 1Vrms

IR : 25Vdc , 120s 25Vdc, 120s

Spec	Cap.	Q/DF	IR
Item 1	9 to 11 uF	0.05(max.)	5.0E+01 (min.)Mohm
Item 2	9 to 11 uF	0.05(max.)	5.0E+01 (min.)Mohm

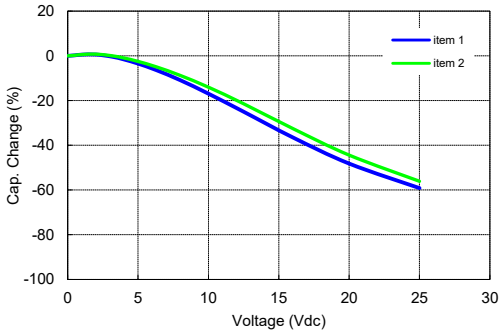
3. Impedance/ESR - Frequency

Equipment: Impedance/network analyzer



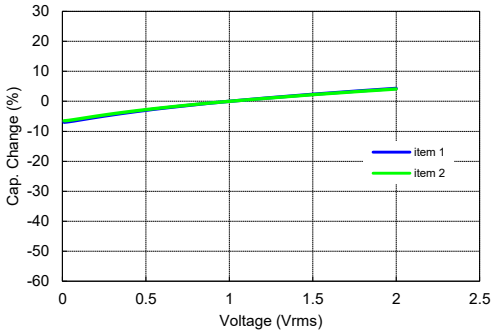
4. Capacitance - DC Voltage Characteristics

1kHz / 1Vrms Equipment: LCR meter



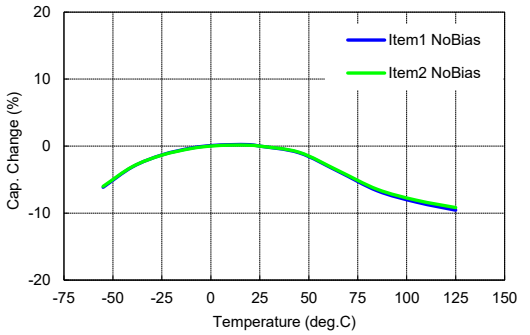
5. Capacitance - AC Voltage Characteristics

1kHz Equipment: LCR meter



6. Capacitance - Temperature Characteristics

1kHz / 0.01Vrms Equipment: LCR meter



Part Number
GCJ32ER71E106KA18_
GCJ32ER71E106MA18_
GCJ32ER7ZB106KA07_
GCJ32ER71H475KA12_
GCJ32ER71H475KA14_
GCJ32ER71H475KA17_
GCJ32ER71H475MA12_
GCJ32EL81E475KA01_
GCJ32EL81E475MA01_
GCJ21BR71H105KA01_
GCJ21BR71H105MA01_
GCJ21BR71H105KA14_