Product Change Notification

PCN Date:	Mar 17, 2026	
Supplier Name:	Pulse Electronics	
Pulse PCN No.	PCN-100000822	
Description of Change	The lead wire supplier Denggaoda will stop continuing supply, Pulse introduce new source supplier for the component of wire (051-42QS-MW85-N). The material and process are the same, with no impact on product form, fit, and function, and no change of product specifications. Wire supplier Suntek is qualified by Pulse in the year 2013.	
Reason for Change	The lead wire supplier Denggaoda will stop business with Pulse.	
Summary of Changes	**Old**	**New**
	wire supplier: Denggaoda	wire supplier: Suntek
Traceability guidelines	By date code, traceability record can be provided upon request	
Qualification Data	Pulse arranged the AEC-Q200 full qualification on AE3003H for wire 051-42QS-MW85-N, please refer to the attached qualification report.  AE3003H Qualification Test	

Pulse Part Number	**PCN Effectivity Date**
AE3003/AE3003H	Sep 17, 2026

Customer: Generic
Originator: Keith Zhao
Phone: (86)-0816-7077888-2882
E-mail: Keith.zhao@yageo.com

Statement: Dear customer, please response this PCN requirement. If you have any special requirements, please let us know. Lack of response after 30 days will be considered acceptable of change.

Qualification Report _ AE3003H

PQ6.100.5886

Rev A: 3/19/2026

Prepared By:
Colin Zhang
Pulse MPO QA Sr. Supervisor

Approved By:
Raymond Tan
Pulse MPO Quality Manager

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AE3003H Test Summary (Revision:A)

1. PURPOSE

This is an internal Pulse Qualification Plan to qualify the automotive part AE3003H material 051-42QS-MW85-N from Suntek.
Testing data will be reviewed after each environmental testing.

2. SCOPE

AE3003H is produced and tested in MPO.

3. REFERENCES

AE3003H released TLA documents Rev 10 and AEC-Q200 Rev E Table 5.

4. TEST SUMMARY AS BELOW:

TEST Description	Reference	Sample size	Test conditions/Remarks	Result	Remarks
High Temperature Exposure (Storage)	MIL-STD-202 Method 108	77	1000 Hrs @ 125°C	Pass	Appendix 1
Temperature Cycling	JESD22 Method JA-104	77	1000cycles (-40°C to 125°C)	Pass	Manual test open/short since it mouted onto PCB and couldn't disassembly.
Biased Humidity	MIL-STD-202 Method 103	77	1000 hours 85°C/85%RH.	Pass	
Operational Life	MIL-PRF-27	77	1000 hours 125°C with 50mA DC	Pass	
Terminal Strength	MIL-STD-202 Method 211	30	Condition B, bent at 45degree.	Not applicable	
Resistance to Soldering Heat	MIL-STD-202 Method 210	30	Condition K,3times Reflow tests, with 245°C Peak Temperature condition.	Pass	Appendix 2
Solvent resistance	MIL-STD-202 Method 215	5	It is applicable to marked and/or coated components. Add Aqueous wash chemical OKEMCLEAN(A 6% concentrated Oakite cleaner) or equivalent.	Not applicable. Laser marking	

AE3003H Test Summary (Revision:A)

1. PURPOSE

This is an internal Pulse Qualification Plan to qualify the automotive part AE3003H material 051-42QS-MW85-N from Suntek.
Testing data will be reviewed after each environmental testing.

2. SCOPE

AE3003H is produced and tested in MPO.

3. REFERENCES

AE3003H released TLA documents Rev 10 and AEC-Q200 Rev E Table 5.

4. TEST SUMMARY AS BELOW:

Solderability	J-STD-002	45	Per J-STD-002E a) Method B, 4hrs @ 155°C dry heat @ 235 °C b) Method B @ 215°C category 3. c) Method D category 3 @ 260°C.	Pass	Appendix 3
Mechanical Shock	MIL-STD-202 Method 213	30	Figure 1 of Method 213. Condition C Use the Vibration sample to do this.	Pass	Manual test open/short since it mouted onto PCB and couldn't disassembly.
Vibration	MIL-STD-202 Method 204	30	5g's for 20 minutes, 12 cycles each of 3 orientations. Note: Use 8"X5" PCB, .031" thick, 7 secure points on one long side and 2 secure points at corners of opposite sides. Parts mounted within 2" from any secure point. Test from 10-2000 Hz.		
Electrical Characterization	User Spec	90	Test OCL @-40°C,25°C,125°C	Pass	Appendix 4
Terminal Strength (SMD)	AEC-Q200-006	30	1.8kg @60s holding	Pass	Appendix 5
Board Flex	AEC-Q200-005	30	60 sec minimum holding time	Pass	Manual test open/short since it mouted onto PCB and couldn't disassembly.
Flammability	UL-94	No exposed resin & plastic and the flammability is not applicable			
Physical Dimension	JESD22 Method JB-100	30	Electrical Test not required	Pass	Appendix 6-7

Abbreviation in datasheet.

DCR: Direct Current Resistance
OPSH: Open / Short; for insulation
TR: Turn Ratio
P: Polarity
OCL: Open Curent inductance
RL: Return Loss
CMR Common Mode Rejection
DCMR Different to Common Mode Rejection

Appendix 1

AE3003H High Tempeature Exposure1000hrs

Electrical Test Data

Parameter	DCR	DCR	OCL	OCL	TR	P	TR	P	OPSH
Condition:	normal	normal	100 kHz, 100 mVRMS	100 kHz, 100 mVRMS	normal	normal	normal		
Pins	1-4	2-3	1-4	2-3	1-4	1-4	2-3	2-3	1-2
Unit	Ohms	Ohms	uH	uH					Mohms
HighLimit	1.5	1.5			1.02		1020		
LowLimit			60	60	0.98		980		10
Average =	1.33	1.32	98.44	97.68	1.00		996.83		59.71
STD DEV =	0.03	0.02	5.90	5.84	0.00		0.27		1.54
Cpu	1.86	2.54			3.38		28.58		
Cpl			2.17	2.15	3.51		20.76		10.74
Cpk	1.86	2.54	2.17	2.15	3.38		20.76		10.74
DATA	-	-	-	-	-	-	-	-	-
1	1.318	1.312	93.983	93.347	1	+	996.779	+	62.128
2	1.294	1.303	91.889	91.361	1	+	997.848	+	57.862
3	1.31	1.302	101.069	100.274	1	+	996.841	+	58.319
4	1.293	1.305	107.72	106.902	1	+	996.61	+	59.381
5	1.307	1.303	92.381	91.644	1	+	996.831	+	58.825
6	1.3	1.295	94.75	94.039	1	+	996.834	+	58.249
7	1.316	1.305	104.262	103.445	1	+	996.58	+	59.910
8	1.331	1.302	91.346	90.638	1	+	996.754	+	61.160
9	1.368	1.305	97.287	96.511	1	+	996.858	+	59.836
10	1.303	1.308	97.466	96.756	1	+	996.814	+	57.414
11	1.365	1.318	97.33	96.546	1.01	+	996.643	+	58.670
12	1.307	1.328	94.557	93.815	1	+	997	+	58.958
13	1.329	1.292	90.292	89.592	1	+	996.822	+	58.444
14	1.3	1.296	102.373	101.518	1	+	996.789	+	62.246
15	1.318	1.414	99.212	98.449	1	+	996.801	+	62.030
16	1.327	1.305	102.424	101.588	1	+	996.62	+	61.379
17	1.3	1.304	91.487	90.749	1	+	996.942	+	61.821
18	1.3	1.3	100.879	100.114	1	+	996.69	+	61.476
19	1.294	1.301	94.801	94.059	1	+	996.65	+	58.359
20	1.365	1.376	99.36	98.566	1	+	996.775	+	57.697
21	1.296	1.297	99.567	98.82	1	+	997.294	+	60.303
22	1.35	1.338	93.024	92.296	1	+	996.618	+	58.980
23	1.305	1.308	101.006	100.235	1	+	996.921	+	59.752
24	1.298	1.309	93.24	92.467	1	+	996.853	+	62.015
25	1.386	1.328	89.801	89.083	1	+	996.528	+	60.027
26	1.401	1.305	102.936	101.99	1	+	996.631	+	57.585
27	1.342	1.298	98.009	97.318	1	+	997.491	+	57.698
28	1.311	1.307	92.948	92.186	1	+	996.625	+	59.956
29	1.33	1.297	102.788	102.01	1	+	996.767	+	59.317
30	1.324	1.296	101.5	100.733	1	+	996.764	+	59.160
31	1.342	1.303	106.676	105.801	1	+	996.586	+	59.631
32	1.302	1.296	103.206	102.431	1	+	996.911	+	60.972
33	1.305	1.299	97.563	96.787	1.01	+	996.745	+	59.190
34	1.367	1.315	97.505	96.769	1.01	+	996.693	+	57.851
35	1.3	1.303	100.23	99.449	1	+	996.74	+	62.187
36	1.39	1.321	97.175	96.424	1	+	996.939	+	57.836
37	1.319	1.299	102.993	102.173	1	+	996.876	+	57.089
38	1.324	1.303	93.918	93.247	1	+	997.398	+	58.073
39	1.338	1.314	100.431	99.747	1	+	997.509	+	60.691
40	1.304	1.297	100.132	99.365	1	+	996.626	+	62.065
41	1.31	1.308	92.405	91.596	1	+	996.467	+	59.425
42	1.305	1.298	92.834	92.131	1	+	996.735	+	59.531
43	1.359	1.349	76.668	76.181	1	+	997.003	+	59.785
44	1.319	1.313	101.083	100.264	1	+	996.836	+	60.417
45	1.328	1.325	99.903	99.179	1	+	996.178	+	59.738
46	1.314	1.376	100.892	100.074	1	+	997.896	+	61.083
47	1.29	1.307	94.393	93.623	1	+	996.71	+	61.193

Appendix 1

AE3003H High Tempeature Exposure1000hrs

Electrical Test Data

Parameter	DCR	DCR	OCL	OCL	TR	P	TR	P	OPSH
Condition:	normal	normal	100 kHz, 100 mVRMS	100 kHz, 100 mVRMS	normal	normal	normal		
Pins	1-4	2-3	1-4	2-3	1-4	1-4	2-3	2-3	1-2
Unit	Ohms	Ohms	uH	uH					Mohms
HighLimit	1.5	1.5			1.02		1020		
LowLimit			60	60	0.98		980		10
Average =	1.33	1.32	98.44	97.68	1.00		996.83		59.71
STD DEV =	0.03	0.02	5.90	5.84	0.00		0.27		1.54
Cpu	1.86	2.54			3.38		28.58		
Cpl			2.17	2.15	3.51		20.76		10.74
Cpk	1.86	2.54	2.17	2.15	3.38		20.76		10.74
DATA	-	-	-	-	-	-	-	-	-
48	1.305	1.318	98.213	97.481	1	+	996.936	+	60.749
49	1.304	1.301	101.458	100.664	1	+	996.586	+	60.866
50	1.317	1.297	100.963	100.197	1	+	996.802	+	62.064
51	1.325	1.356	101.896	101.114	1	+	997.076	+	58.918
52	1.305	1.311	93.906	93.199	1	+	996.693	+	59.222
53	1.385	1.326	93.157	92.423	1	+	996.922	+	58.299
54	1.308	1.297	102.544	101.756	1	+	996.845	+	58.798
55	1.322	1.372	109.048	108.249	1	+	996.699	+	57.472
56	1.315	1.31	96.252	95.532	1	+	996.812	+	57.379
57	1.303	1.299	100.518	99.759	1	+	996.787	+	59.829
58	1.311	1.3	97.678	96.952	1	+	996.827	+	57.268
59	1.328	1.314	99.314	98.528	1	+	996.629	+	61.372
60	1.324	1.306	100.097	99.37	1	+	996.719	+	61.882
61	1.346	1.339	97.749	97.016	1	+	996.884	+	60.832
62	1.312	1.319	106.992	106.133	1	+	996.656	+	59.839
63	1.313	1.312	103.52	102.692	1	+	996.533	+	59.587
64	1.329	1.377	104.736	103.955	1	+	996.756	+	59.080
65	1.299	1.315	97.899	97.127	1	+	996.804	+	57.592
66	1.305	1.307	107.341	106.436	1	+	996.683	+	58.609
67	1.392	1.352	104.264	103.44	1	+	996.814	+	57.084
68	1.309	1.304	91.569	90.818	1	+	996.712	+	62.181
69	1.335	1.302	77.586	77.081	1	+	997.078	+	59.199
70	1.297	1.362	91.053	90.395	1	+	997.262	+	61.373
71	1.393	1.317	103.599	102.77	1	+	996.811	+	62.320
72	1.391	1.324	101.231	100.426	1	+	996.753	+	61.361
73	1.402	1.307	101.799	101.027	1	+	996.995	+	59.347
74	1.298	1.303	101.741	100.904	1	+	996.9	+	57.690
75	1.298	1.31	105.537	104.774	1	+	996.983	+	59.104
76	1.307	1.317	110.763	109.899	1	+	996.72	+	61.871
77	1.416	1.378	99.779	98.992	1	+	996.688	+	60.896

Parameter	RL	RL	RL	RL	RL	RL	RL	CMR	CMR
Condition:	1MHZ	10MHZ	20MHZ	30MHZ	40MHZ	50MHZ	60MHZ	1MHZ	10MHZ
Pins									
Unit	dB	dB	dB	dB	dB	dB	dB	dB	dB
HighLimit									
LowLimit	-26	-26	-24	-23	-21	-19.4	-18	-16	-31.8
Average =	-39.83	-35.52	-31.14	-27.78	-25.18	-23.08	-21.36	-24.18	-39.31
STD DEV =	1.38	0.86	0.52	0.40	0.35	0.32	0.29	0.30	0.36
Cpu									
Cpl	3.33	3.69	4.58	4.01	4.02	3.84	3.81	9.03	6.87
Cpk	3.33	3.69	4.58	4.01	4.02	3.84	3.81	9.03	6.87
DATA	-	-	-	-	-	-	-	-	-
1	-40.468	-35.847	-31.092	-27.629	-24.998	-22.855	-21.115	-24.361	-39.395
2	-36.576	-33.772	-30.577	-27.799	-25.503	-23.536	-21.882	-24.329	-39.381
3	-40.149	-35.771	-31.239	-27.814	-25.187	-23.056	-21.323	-24.140	-39.213
4	-40.801	-35.995	-31.424	-27.999	-25.356	-23.215	-21.480	-24.269	-39.577
5	-40.646	-36.000	-31.473	-28.022	-25.391	-23.255	-21.514	-24.344	-39.611
6	-40.207	-35.771	-31.477	-28.094	-25.487	-23.355	-21.603	-24.744	-39.905
7	-39.995	-35.585	-31.093	-27.665	-25.050	-22.937	-21.204	-24.567	-39.846
8	-40.519	-35.743	-31.171	-27.739	-25.091	-22.959	-21.236	-23.965	-38.949
9	-39.865	-35.827	-31.596	-28.251	-25.677	-23.554	-21.798	-24.205	-39.380
10	-40.110	-35.877	-31.365	-27.961	-25.322	-23.192	-21.442	-24.285	-39.427
11	-39.465	-35.273	-31.047	-27.692	-25.096	-23.011	-21.275	-24.115	-39.285
12	-38.340	-34.689	-30.826	-27.653	-25.127	-23.065	-21.371	-23.881	-38.973
13	-40.403	-35.891	-31.242	-27.804	-25.175	-23.056	-21.307	-24.002	-39.309
14	-40.102	-35.633	-31.206	-27.788	-25.188	-23.065	-21.328	-23.828	-38.846
15	-31.128	-29.721	-27.395	-24.936	-22.824	-21.024	-19.586	-24.316	-39.413
16	-40.293	-35.845	-31.505	-28.112	-25.538	-23.398	-21.661	-24.211	-39.297
17	-39.244	-35.362	-31.209	-27.932	-25.384	-23.276	-21.559	-24.220	-39.452
18	-40.170	-35.928	-31.487	-28.114	-25.504	-23.392	-21.651	-24.372	-39.587
19	-40.149	-35.806	-31.399	-27.986	-25.388	-23.260	-21.521	-24.317	-39.482
20	-39.974	-35.870	-31.549	-28.185	-25.563	-23.450	-21.704	-23.924	-39.060
21	-40.138	-35.390	-30.779	-27.317	-24.710	-22.581	-20.878	-23.839	-38.884
22	-39.998	-35.505	-30.966	-27.507	-24.886	-22.780	-21.071	-23.783	-38.665
23	-39.679	-35.541	-31.316	-27.985	-25.384	-23.285	-21.555	-24.310	-39.480
24	-40.213	-35.869	-31.510	-28.154	-25.553	-23.420	-21.685	-24.546	-39.829
25	-40.049	-35.773	-31.358	-27.991	-25.381	-23.258	-21.529	-24.482	-39.701
26	-40.320	-35.545	-30.833	-27.333	-24.716	-22.601	-20.893	-24.359	-39.477
27	-40.644	-35.809	-31.146	-27.666	-25.032	-22.905	-21.171	-24.588	-39.810
28	-40.606	-35.924	-31.372	-27.932	-25.314	-23.182	-21.448	-24.637	-39.734
29	-39.158	-35.277	-31.164	-27.917	-25.362	-23.277	-21.562	-24.189	-39.346
30	-39.765	-35.715	-31.461	-28.098	-25.474	-23.370	-21.655	-24.240	-39.287
31	-40.072	-35.677	-31.316	-27.923	-25.309	-23.212	-21.494	-24.394	-39.541
32	-37.582	-34.331	-30.581	-27.497	-25.047	-23.035	-21.348	-24.395	-39.607
33	-40.436	-35.818	-31.171	-27.719	-25.093	-22.973	-21.253	-24.433	-39.584
34	-40.217	-35.823	-31.385	-27.992	-25.365	-23.248	-21.516	-23.771	-38.816
35	-40.368	-36.013	-31.464	-28.069	-25.456	-23.326	-21.594	-24.137	-39.498
36	-40.569	-35.739	-31.086	-27.636	-25.018	-22.896	-21.172	-24.586	-39.730
37	-40.517	-35.885	-31.319	-27.859	-25.232	-23.108	-21.370	-23.869	-38.887
38	-40.375	-35.776	-31.111	-27.642	-25.001	-22.898	-21.177	-23.584	-38.506
39	-40.260	-35.770	-31.346	-27.923	-25.318	-23.201	-21.483	-23.957	-39.055
40	-40.003	-35.519	-30.921	-27.539	-24.930	-22.811	-21.109	-24.001	-39.130
41	-34.187	-32.067	-29.552	-27.149	-25.079	-23.248	-21.693	-24.180	-39.417
42	-40.426	-35.627	-30.992	-27.569	-24.961	-22.865	-21.146	-24.231	-39.408
43	-39.680	-35.626	-31.245	-27.913	-25.319	-23.230	-21.522	-23.123	-38.336
44	-40.497	-35.768	-31.093	-27.618	-24.991	-22.863	-21.143	-24.453	-39.768
45	-40.442	-35.787	-31.172	-27.700	-25.075	-22.947	-21.234	-23.869	-39.073
46	-39.919	-35.917	-31.557	-28.228	-25.625	-23.505	-21.779	-24.711	-39.973
47	-40.103	-35.519	-31.086	-27.689	-25.114	-23.013	-21.319	-24.296	-39.500

Parameter	RL	RL	RL	RL	RL	RL	RL	CMR	CMR
Condition:	1MHZ	10MHZ	20MHZ	30MHZ	40MHZ	50MHZ	60MHZ	1MHZ	10MHZ
Pins									
Unit	dB	dB	dB	dB	dB	dB	dB	dB	dB
HighLimit									
LowLimit	-26	-26	-24	-23	-21	-19.4	-18	-16	-31.8
Average =	-39.83	-35.52	-31.14	-27.78	-25.18	-23.08	-21.36	-24.18	-39.31
STD DEV =	1.38	0.86	0.52	0.40	0.35	0.32	0.29	0.30	0.36
Cpu									
Cpl	3.33	3.69	4.58	4.01	4.02	3.84	3.81	9.03	6.87
Cpk	3.33	3.69	4.58	4.01	4.02	3.84	3.81	9.03	6.87
DATA	-	-	-	-	-	-	-	-	-
48	-40.250	-35.689	-31.108	-27.660	-25.025	-22.931	-21.197	-24.413	-39.568
49	-40.313	-35.773	-31.184	-27.738	-25.110	-23.006	-21.279	-24.295	-39.564
50	-40.484	-35.900	-31.387	-28.014	-25.377	-23.261	-21.521	-24.442	-39.484
51	-37.902	-34.482	-30.712	-27.625	-25.137	-23.100	-21.432	-24.368	-39.446
52	-40.300	-35.751	-31.321	-27.944	-25.315	-23.211	-21.494	-23.878	-38.990
53	-40.436	-35.735	-31.097	-27.623	-24.999	-22.888	-21.176	-23.126	-38.032
54	-39.892	-35.629	-31.196	-27.774	-25.183	-23.085	-21.378	-24.492	-39.695
55	-40.551	-35.775	-31.083	-27.620	-24.991	-22.886	-21.170	-24.286	-39.332
56	-40.228	-35.766	-31.304	-27.905	-25.267	-23.172	-21.441	-24.160	-39.454
57	-40.488	-35.609	-30.929	-27.466	-24.859	-22.756	-21.057	-24.340	-39.446
58	-40.146	-35.719	-31.276	-27.877	-25.255	-23.154	-21.439	-23.911	-38.961
59	-40.003	-35.609	-31.064	-27.658	-25.037	-22.934	-21.232	-23.985	-38.978
60	-38.871	-34.988	-30.824	-27.555	-25.016	-22.946	-21.248	-24.402	-39.553
61	-40.245	-35.661	-30.995	-27.550	-24.903	-22.805	-21.090	-24.451	-39.595
62	-40.657	-36.112	-31.616	-28.219	-25.575	-23.437	-21.705	-24.306	-39.420
63	-40.480	-35.816	-31.184	-27.772	-25.138	-23.036	-21.323	-24.352	-39.433
64	-40.268	-35.920	-31.444	-28.005	-25.393	-23.289	-21.558	-24.295	-39.592
65	-40.507	-35.661	-30.952	-27.485	-24.859	-22.752	-21.049	-24.279	-39.399
66	-40.157	-35.648	-31.068	-27.697	-25.072	-22.970	-21.256	-23.935	-39.183
67	-40.367	-35.813	-31.147	-27.710	-25.092	-22.975	-21.255	-23.817	-38.825
68	-40.081	-35.631	-31.144	-27.704	-25.101	-22.994	-21.286	-24.164	-39.381
69	-40.580	-35.815	-31.147	-27.691	-25.038	-22.891	-21.132	-23.950	-38.890
70	-39.859	-35.607	-31.268	-27.936	-25.291	-23.172	-21.401	-24.094	-39.129
71	-39.726	-35.654	-31.316	-27.962	-25.330	-23.185	-21.420	-24.375	-39.518
72	-39.376	-35.525	-31.377	-28.030	-25.436	-23.309	-21.561	-23.871	-38.869
73	-40.384	-35.882	-31.465	-28.017	-25.370	-23.228	-21.454	-24.044	-39.106
74	-39.539	-35.589	-31.433	-28.133	-25.521	-23.396	-21.631	-24.281	-39.421
75	-39.266	-35.531	-31.337	-28.060	-25.475	-23.360	-21.598	-23.748	-38.672
76	-40.009	-35.616	-31.130	-27.702	-25.072	-22.953	-21.205	-23.965	-38.952
77	-40.558	-35.869	-31.339	-27.899	-25.248	-23.095	-21.337	-24.310	-39.350

Parameter	CMR	CMR	CMR	CMR	CMR	DCMR	DCMR	DCMR	DCMR
Condition:	60MHZ	100MHZ	300MHZ	600MHZ	1000MHZ	1MHZ	10MHZ	30MHZ	50MHZ
Pins									
Unit	dB	dB	dB	dB	dB	dB	dB	dB	dB
HighLimit									
LowLimit	-38.4	-41.4	-31.9	-32	-38	-65	-65	-60	-56
Average =	-50.08	-53.38	-46.67	-60.21	-47.43	-81.96	-82.30	-75.87	-67.57
STD DEV =	0.34	0.74	0.27	0.86	0.44	3.08	3.28	2.44	2.05
Cpu									
Cpl	11.40	5.41	18.35	10.98	7.15	1.84	1.76	2.16	1.88
Cpk	11.40	5.41	18.35	10.98	7.15	1.84	1.76	2.16	1.88
DATA	-	-	-	-	-	-	-	-	-
1	-49.832	-52.655	-46.664	-60.128	-47.483	-78.965	-79.097	-72.472	-68.654
2	-50.156	-53.485	-46.490	-59.789	-47.298	-85.712	-79.883	-73.463	-66.626
3	-50.179	-53.587	-46.288	-60.759	-46.835	-86.236	-85.108	-74.510	-65.435
4	-50.507	-53.916	-46.409	-59.782	-46.814	-80.409	-85.711	-73.876	-71.012
5	-50.145	-53.298	-46.802	-59.687	-48.072	-86.001	-83.673	-79.782	-71.064
6	-50.185	-53.043	-46.859	-61.390	-47.432	-79.825	-85.921	-73.786	-71.225
7	-50.638	-54.242	-46.590	-59.831	-47.560	-84.093	-78.844	-74.669	-65.146
8	-49.511	-52.087	-46.669	-59.279	-48.643	-78.281	-84.103	-77.827	-67.507
9	-50.262	-53.593	-46.374	-60.938	-46.761	-85.428	-86.479	-72.087	-65.167
10	-50.428	-53.679	-46.352	-60.778	-46.917	-82.736	-81.416	-77.853	-68.615
11	-50.302	-53.818	-46.982	-59.090	-48.095	-78.041	-78.388	-72.020	-66.638
12	-49.561	-52.338	-46.912	-61.413	-47.293	-86.150	-83.252	-79.273	-66.499
13	-50.104	-53.501	-47.262	-60.670	-47.564	-83.541	-79.690	-77.842	-66.528
14	-49.594	-52.865	-46.585	-61.163	-48.017	-86.792	-76.876	-72.610	-65.845
15	-49.776	-52.571	-47.031	-60.463	-47.650	-79.293	-81.926	-72.024	-68.987
16	-50.202	-53.680	-46.905	-60.147	-47.406	-78.361	-81.920	-73.995	-64.582
17	-50.744	-55.051	-46.361	-59.371	-47.271	-79.759	-82.038	-77.366	-68.339
18	-50.594	-54.524	-46.473	-59.788	-47.888	-81.096	-80.212	-79.492	-65.997
19	-50.536	-54.378	-46.887	-58.619	-47.901	-86.316	-84.766	-75.342	-67.963
20	-50.098	-53.706	-46.347	-61.114	-47.395	-82.965	-83.468	-74.228	-70.869
21	-50.331	-54.856	-46.757	-60.326	-47.775	-86.435	-77.783	-73.394	-69.428
22	-49.557	-53.246	-47.241	-58.914	-47.482	-85.675	-78.928	-77.326	-69.921
23	-50.178	-53.674	-47.401	-57.760	-48.231	-80.356	-86.025	-75.655	-68.284
24	-50.821	-54.856	-46.906	-59.565	-46.933	-78.733	-84.272	-78.680	-71.173
25	-50.558	-54.412	-46.515	-59.518	-46.918	-85.005	-87.047	-79.435	-66.195
26	-50.117	-53.095	-46.731	-61.186	-47.209	-79.629	-78.531	-74.396	-67.575
27	-49.823	-52.041	-46.564	-62.157	-47.254	-78.190	-76.879	-76.397	-64.554
28	-50.385	-53.851	-46.764	-60.219	-47.361	-87.084	-83.296	-74.480	-66.870
29	-50.141	-53.582	-46.631	-61.194	-47.198	-87.227	-80.531	-78.419	-67.515
30	-50.236	-53.880	-46.208	-61.145	-46.654	-80.140	-85.916	-77.550	-69.462
31	-50.502	-54.360	-46.721	-59.561	-47.094	-84.863	-82.904	-79.404	-70.076
32	-50.212	-53.745	-47.128	-59.581	-47.056	-83.819	-81.728	-78.214	-67.479
33	-50.017	-52.448	-46.668	-59.973	-47.156	-85.083	-83.133	-78.590	-65.931
34	-49.566	-52.428	-46.183	-62.227	-47.332	-80.264	-82.997	-79.962	-67.022
35	-50.717	-54.725	-46.755	-60.178	-47.085	-78.468	-82.889	-74.592	-64.619
36	-50.176	-53.712	-46.840	-59.629	-47.206	-85.351	-77.078	-78.135	-65.194
37	-49.757	-52.763	-46.337	-60.643	-47.072	-80.510	-77.036	-79.200	-70.944
38	-49.546	-52.951	-46.797	-59.829	-47.504	-78.993	-79.384	-73.225	-66.189
39	-50.142	-53.423	-46.483	-59.748	-46.881	-83.457	-78.372	-75.457	-68.591
40	-49.717	-52.268	-46.574	-61.615	-47.126	-86.942	-86.564	-73.102	-68.095
41	-50.055	-53.131	-46.468	-59.453	-48.038	-79.597	-84.340	-75.233	-66.069
42	-50.318	-53.516	-46.361	-61.622	-47.504	-78.664	-78.450	-75.124	-67.775
43	-50.082	-54.161	-46.688	-59.318	-46.845	-87.146	-79.624	-79.387	-70.640
44	-50.571	-54.434	-46.698	-60.365	-47.089	-81.014	-81.685	-71.751	-65.274
45	-50.068	-53.714	-46.867	-60.304	-47.252	-80.662	-83.800	-76.985	-67.477
46	-50.511	-53.331	-46.255	-60.624	-47.053	-84.688	-86.400	-76.823	-64.621
47	-50.191	-53.375	-46.680	-59.452	-47.715	-83.185	-81.618	-75.498	-65.445

Parameter	CMR	CMR	CMR	CMR	CMR	DCMR	DCMR	DCMR	DCMR
Condition:	60MHZ	100MHZ	300MHZ	600MHZ	1000MHZ	1MHZ	10MHZ	30MHZ	50MHZ
Pins									
Unit	dB	dB	dB	dB	dB	dB	dB	dB	dB
HighLimit									
LowLimit	-38.4	-41.4	-31.9	-32	-38	-65	-65	-60	-56
Average =	-50.08	-53.38	-46.67	-60.21	-47.43	-81.96	-82.30	-75.87	-67.57
STD DEV =	0.34	0.74	0.27	0.86	0.44	3.08	3.28	2.44	2.05
Cpu									
Cpl	11.40	5.41	18.35	10.98	7.15	1.84	1.76	2.16	1.88
Cpk	11.40	5.41	18.35	10.98	7.15	1.84	1.76	2.16	1.88
DATA	-	-	-	-	-	-	-	-	-
48	-50.224	-53.248	-46.665	-59.532	-46.892	-79.351	-87.185	-76.545	-70.457
49	-50.147	-52.819	-46.524	-61.159	-46.906	-81.904	-86.919	-74.412	-70.538
50	-50.097	-53.262	-47.106	-59.428	-47.785	-80.448	-78.299	-73.845	-68.870
51	-49.767	-52.104	-46.638	-60.955	-47.068	-78.353	-87.095	-72.469	-68.066
52	-50.175	-54.028	-47.057	-58.996	-47.358	-76.631	-85.335	-78.162	-70.985
53	-49.291	-52.271	-46.540	-60.731	-47.356	-81.067	-80.095	-77.673	-67.411
54	-49.866	-52.351	-46.600	-59.938	-47.621	-79.259	-79.015	-74.358	-67.582
55	-49.622	-52.083	-46.705	-60.588	-47.521	-79.060	-85.521	-78.296	-66.658
56	-50.412	-53.655	-46.171	-61.755	-46.798	-82.075	-83.388	-72.386	-64.714
57	-50.364	-53.568	-46.253	-60.173	-46.698	-79.960	-82.827	-77.816	-65.516
58	-49.881	-53.689	-46.685	-59.565	-47.554	-79.914	-80.584	-75.117	-65.125
59	-49.909	-53.457	-46.627	-60.576	-47.411	-80.983	-87.225	-78.186	-66.803
60	-50.167	-53.358	-46.916	-60.227	-47.444	-79.355	-77.229	-74.167	-70.876
61	-50.352	-53.735	-46.568	-60.155	-47.092	-81.071	-84.658	-78.628	-70.093
62	-50.033	-53.612	-46.962	-59.092	-47.882	-87.192	-85.143	-77.726	-65.842
63	-50.053	-53.186	-46.919	-59.393	-47.798	-85.726	-79.540	-77.720	-71.008
64	-50.438	-53.632	-46.440	-60.018	-47.586	-80.670	-86.960	-72.713	-70.000
65	-49.501	-51.213	-46.503	-62.479	-47.320	-83.289	-77.048	-74.167	-66.103
66	-49.928	-52.962	-46.839	-60.037	-48.480	-86.404	-78.930	-76.547	-67.295
67	-49.761	-52.806	-46.499	-61.200	-47.637	-76.881	-85.927	-72.467	-66.385
68	-50.056	-53.139	-46.792	-60.342	-47.056	-81.709	-78.273	-73.105	-69.442
69	-49.548	-52.569	-46.662	-59.572	-47.934	-81.090	-76.941	-73.182	-68.021
70	-49.695	-52.843	-46.724	-60.062	-47.478	-78.109	-86.660	-73.796	-65.511
71	-49.877	-52.932	-46.420	-59.392	-48.360	-86.018	-82.500	-78.082	-64.638
72	-49.813	-54.004	-46.417	-60.452	-47.095	-80.641	-85.979	-73.607	-66.504
73	-49.843	-53.746	-46.472	-60.162	-47.380	-78.635	-86.820	-75.141	-67.881
74	-49.949	-53.328	-46.763	-59.845	-47.914	-82.580	-80.865	-80.179	-66.547
75	-49.369	-53.191	-47.317	-60.234	-48.066	-77.801	-79.868	-74.069	-69.507
76	-49.890	-53.601	-46.959	-59.820	-47.958	-78.848	-87.208	-76.879	-64.962
77	-50.238	-54.193	-46.558	-60.190	-47.960	-85.068	-83.083	-79.696	-64.571

Parameter	DCMR	DCMR	DCMR	DCMR	DCMR
Condition:	100MHZ	200MHZ	300MHZ	500MHZ	1000MHZ
Pins					
Unit	dB	dB	dB	dB	dB
HighLimit					
LowLimit	-50	-40	-35	-30	-25
Average =	-63.29	-53.62	-56.44	-52.75	-53.59
STD DEV =	2.25	1.49	2.05	1.56	2.11
Cpu					
Cpl	1.97	3.06	3.48	4.85	4.52
Cpk	1.97	3.06	3.48	4.85	4.52
DATA	-	-	-	-	-
1	-63.611	-53.282	-55.379	-52.621	-54.935
2	-62.532	-53.881	-56.247	-52.544	-52.201
3	-61.889	-53.155	-54.904	-51.669	-51.635
4	-63.681	-53.236	-55.212	-52.476	-52.953
5	-60.783	-50.885	-53.414	-49.782	-49.775
6	-63.059	-54.702	-56.960	-53.401	-53.234
7	-63.639	-54.381	-57.322	-53.778	-54.446
8	-61.200	-50.621	-53.319	-50.129	-50.331
9	-68.938	-56.462	-59.856	-54.954	-55.465
10	-64.308	-54.851	-58.141	-54.379	-55.325
11	-59.644	-52.379	-54.490	-51.354	-51.810
12	-61.218	-52.427	-54.793	-51.805	-52.183
13	-61.293	-52.058	-54.926	-51.371	-52.140
14	-61.146	-51.416	-54.137	-51.048	-52.467
15	-63.713	-52.961	-56.042	-52.964	-53.882
16	-61.299	-52.523	-54.862	-51.444	-51.931
17	-63.011	-53.937	-55.944	-52.161	-51.324
18	-61.181	-50.883	-53.341	-50.262	-49.962
19	-62.112	-54.671	-57.447	-53.122	-54.479
20	-67.144	-55.138	-58.163	-54.045	-54.954
21	-61.842	-52.244	-54.439	-50.929	-51.660
22	-60.950	-52.260	-54.783	-51.797	-52.167
23	-60.570	-52.819	-55.052	-52.271	-53.226
24	-62.625	-52.489	-55.471	-51.672	-51.935
25	-66.677	-56.117	-59.384	-54.813	-55.686
26	-63.961	-53.888	-56.972	-52.978	-53.870
27	-61.019	-52.183	-54.495	-52.102	-52.478
28	-64.142	-54.040	-57.056	-53.226	-54.314
29	-59.543	-52.044	-53.700	-50.987	-50.747
30	-68.167	-56.326	-59.700	-54.454	-55.404
31	-62.980	-53.289	-55.976	-51.968	-52.719
32	-67.893	-55.039	-59.485	-53.145	-55.599
33	-64.108	-54.967	-57.989	-54.638	-55.473
34	-60.874	-52.577	-54.694	-51.641	-52.140
35	-60.666	-51.918	-54.385	-50.573	-51.255
36	-65.214	-54.034	-57.452	-52.915	-54.206
37	-62.056	-52.292	-54.626	-51.419	-52.229
38	-62.255	-53.581	-55.533	-52.278	-52.765
39	-65.965	-55.547	-58.821	-54.503	-55.140
40	-61.725	-52.391	-55.135	-52.140	-52.295
41	-62.198	-51.121	-53.617	-49.507	-49.645
42	-61.773	-53.514	-55.918	-52.742	-52.820
43	-67.682	-54.570	-59.061	-53.670	-55.962
44	-63.484	-52.793	-55.090	-51.413	-53.697
45	-61.802	-52.313	-54.862	-51.156	-52.141
46	-62.468	-53.490	-55.046	-52.078	-51.435
47	-63.544	-53.394	-56.591	-52.650	-53.585

Parameter	DCMR	DCMR	DCMR	DCMR	DCMR
Condition:	100MHZ	200MHZ	300MHZ	500MHZ	1000MHZ
Pins					
Unit	dB	dB	dB	dB	dB
HighLimit					
LowLimit	-50	-40	-35	-30	-25
Average =	-63.29	-53.62	-56.44	-52.75	-53.59
STD DEV =	2.25	1.49	2.05	1.56	2.11
Cpu					
Cpl	1.97	3.06	3.48	4.85	4.52
Cpk	1.97	3.06	3.48	4.85	4.52
DATA	-	-	-	-	-
48	-64.512	-54.807	-58.146	-54.160	-54.518
49	-64.297	-54.743	-57.978	-53.870	-54.591
50	-60.979	-53.122	-55.318	-51.841	-51.963
51	-62.161	-52.282	-54.498	-51.640	-51.945
52	-68.357	-55.375	-61.122	-55.274	-58.392
53	-63.646	-53.776	-56.922	-53.278	-54.683
54	-64.329	-55.983	-58.843	-55.392	-55.494
55	-62.236	-52.368	-54.947	-51.832	-54.520
56	-66.858	-55.908	-59.341	-55.269	-56.233
57	-66.436	-56.186	-60.316	-55.987	-57.283
58	-62.775	-52.698	-55.675	-51.381	-53.057
59	-62.872	-53.472	-56.359	-52.286	-53.246
60	-62.437	-52.294	-55.515	-51.341	-51.921
61	-63.742	-53.272	-55.771	-51.888	-51.960
62	-62.674	-52.200	-54.657	-50.623	-51.151
63	-66.409	-56.447	-59.839	-56.024	-58.137
64	-65.770	-55.140	-56.587	-54.159	-56.766
65	-60.757	-52.673	-54.649	-52.193	-52.619
66	-67.398	-55.738	-60.375	-55.532	-58.715
67	-67.541	-55.084	-59.509	-54.752	-57.493
68	-64.315	-54.289	-57.588	-52.995	-53.593
69	-62.545	-54.552	-57.016	-54.658	-54.712
70	-63.209	-53.187	-56.503	-52.800	-54.193
71	-59.783	-52.883	-55.051	-53.049	-53.141
72	-61.665	-53.028	-55.028	-51.898	-52.455
73	-64.181	-52.859	-55.396	-51.966	-52.224
74	-60.809	-53.245	-55.712	-52.768	-53.528
75	-62.993	-54.228	-56.601	-52.619	-53.714
76	-63.420	-54.395	-57.062	-53.801	-54.069
77	-62.289	-57.703	-63.093	-57.125	-60.248

Appendix 2

AE3003H Resistance To Soldering Heat

Electrical Test Data

Parameter	DCR	DCR	OCL	OCL	TR	P	TR	P	OPSH
Condition:	normal	normal	100 kHz, 100 mVRMS	100 kHz, 100 mVRMS	normal	normal	normal		
Pins	1-4	2-3	1-4	2-3	1-4	1-4	2-3	2-3	1-2
Unit	Ohms	Ohms	uH	uH					Mohms
HighLimit	1.5	1.5			1.02		1020		
LowLimit			60	60	0.98		980		10
Average =	1.31	1.41	92.38	91.83	1.00		996.84		60.28
STD DEV =	0.02	0.02	5.38	5.34	0.00		0.28		1.52
Cpu	3.31	1.75			3.65		27.50		
Cpl			2.01	1.99	3.78		19.99		11.03
Cpk	3.31	1.75	2.01	1.99	3.65		19.99		11.03
DATA	-	-	-	-	-	-	-	-	-
1	1.289	1.405	97.582	97.037	1	+	996.924	+	59.338
2	1.288	1.402	96.369	95.872	1	+	997.643	+	62.978
3	1.298	1.407	84.945	84.487	1	+	996.934	+	60.297
4	1.31	1.416	89.509	88.976	1.01	+	996.426	+	61.041
5	1.338	1.421	82.733	82.24	1	+	996.957	+	61.163
6	1.362	1.422	92.277	91.739	1	+	996.757	+	61.334
7	1.337	1.421	97.451	96.85	1	+	996.537	+	58.138
8	1.333	1.415	94.27	93.696	1	+	996.449	+	61.940
9	1.321	1.431	94.488	93.995	1	+	997.291	+	60.326
10	1.3	1.4	94.943	94.388	1	+	996.745	+	59.769
11	1.315	1.481	88.681	88.194	1	+	997.301	+	60.047
12	1.315	1.398	82.174	81.686	1	+	997	+	62.620
13	1.338	1.418	93.52	92.993	1	+	996.795	+	61.774
14	1.303	1.414	92.269	91.716	1	+	996.85	+	61.437
15	1.297	1.402	102.03	101.416	1	+	996.891	+	58.285
16	1.29	1.391	99.443	98.836	1	+	996.833	+	58.561
17	1.289	1.394	95.799	95.169	1	+	996.663	+	57.892
18	1.286	1.393	86.7	86.155	1	+	996.806	+	59.844
19	1.298	1.406	89.981	89.473	1	+	997.349	+	59.516
20	1.299	1.403	85.093	84.583	1	+	996.926	+	59.473
21	1.288	1.395	94.374	93.791	1	+	996.383	+	60.675
22	1.299	1.403	100.078	99.492	1	+	996.87	+	61.359
23	1.302	1.403	89.009	88.455	1	+	996.68	+	57.138
24	1.293	1.4	88.121	87.578	1	+	996.858	+	59.562
25	1.315	1.432	88.518	88	1	+	996.901	+	60.920
26	1.288	1.4	94.855	94.241	1	+	996.535	+	59.494
27	1.291	1.395	102.144	101.475	1	+	996.599	+	62.152
28	1.322	1.414	88.759	88.209	1	+	996.543	+	62.975
29	1.292	1.401	97.052	96.46	1	+	996.788	+	58.205
30	1.28	1.395	88.101	87.568	1	+	996.797	+	60.170

Parameter	RL	RL	RL	RL	RL	RL	RL	CMR	CMR
Condition:	1MHZ	10MHZ	20MHZ	30MHZ	40MHZ	50MHZ	60MHZ	1MHZ	10MHZ
Pins									
Unit	dB	dB	dB	dB	dB	dB	dB	dB	dB
HighLimit									
LowLimit	-26	-26	-24	-23	-21	-19.4	-18	-16	-31.8
Average =	-41.94	-36.52	-31.52	-27.86	-25.53	-23.51	-22.06	-22.65	-38.50
STD DEV =	0.93	0.43	0.27	0.24	0.22	0.21	0.21	0.72	0.39
Cpu									
Cpl	5.71	8.12	9.13	6.78	6.84	6.44	6.52	3.07	5.69
Cpk	5.71	8.12	9.13	6.78	6.84	6.44	6.52	3.07	5.69
DATA	-	-	-	-	-	-	-	-	-
1	-41.078	-36.389	-31.459	-27.790	-25.468	-23.467	-22.040	-21.726	-38.474
2	-42.946	-36.702	-31.412	-27.691	-25.331	-23.320	-21.848	-22.568	-37.769
3	-43.274	-36.954	-31.690	-27.887	-25.545	-23.479	-22.008	-22.928	-38.314
4	-41.724	-36.567	-31.724	-28.129	-25.786	-23.762	-22.312	-22.691	-38.163
5	-41.303	-36.208	-31.298	-27.706	-25.377	-23.357	-21.920	-23.473	-38.984
6	-39.228	-35.104	-30.848	-27.475	-25.246	-23.304	-21.891	-23.178	-38.726
7	-40.206	-35.639	-30.966	-27.504	-25.211	-23.254	-21.829	-23.424	-38.967
8	-41.574	-36.517	-31.723	-28.191	-25.866	-23.873	-22.422	-23.275	-38.709
9	-40.763	-36.016	-31.388	-27.859	-25.554	-23.566	-22.132	-23.114	-38.622
10	-41.625	-36.190	-31.277	-27.584	-25.244	-23.231	-21.763	-23.216	-38.859
11	-41.397	-36.194	-31.324	-27.725	-25.455	-23.457	-22.022	-23.647	-39.126
12	-42.068	-36.647	-31.668	-27.986	-25.648	-23.621	-22.168	-23.032	-38.501
13	-42.108	-36.559	-31.546	-27.825	-25.482	-23.449	-21.997	-22.875	-38.327
14	-41.306	-36.337	-31.557	-27.879	-25.580	-23.576	-22.103	-22.459	-37.642
15	-42.935	-36.836	-31.581	-27.841	-25.495	-23.453	-21.980	-23.525	-38.959
16	-42.626	-36.885	-31.861	-28.132	-25.762	-23.731	-22.275	-23.257	-38.855
17	-42.054	-36.808	-31.709	-28.075	-25.762	-23.741	-22.267	-22.782	-38.271
18	-42.379	-36.708	-31.534	-27.816	-25.452	-23.458	-22.005	-22.656	-38.218
19	-42.644	-37.253	-32.188	-28.509	-26.111	-24.070	-22.572	-23.239	-38.744
20	-41.881	-36.673	-31.645	-27.898	-25.596	-23.578	-22.118	-23.544	-39.149
21	-43.042	-37.009	-31.893	-28.185	-25.799	-23.786	-22.312	-22.927	-38.396
22	-42.590	-36.746	-31.704	-28.004	-25.647	-23.617	-22.160	-22.751	-38.191
23	-40.592	-36.016	-31.360	-27.771	-25.490	-23.517	-22.081	-21.712	-38.516
24	-42.207	-36.672	-31.620	-27.988	-25.638	-23.621	-22.195	-22.388	-39.053
25	-42.879	-37.039	-31.790	-28.085	-25.659	-23.626	-22.146	-21.659	-38.415
26	-41.595	-36.286	-31.057	-27.390	-25.051	-23.055	-21.601	-21.400	-38.170
27	-42.027	-36.598	-31.552	-27.894	-25.537	-23.521	-22.066	-21.941	-38.741
28	-42.975	-36.823	-31.523	-27.760	-25.419	-23.366	-21.908	-21.398	-38.021
29	-43.161	-36.746	-31.433	-27.668	-25.275	-23.242	-21.791	-21.399	-38.151
30	-41.907	-36.428	-31.264	-27.593	-25.312	-23.285	-21.805	-21.444	-38.037

Parameter	CMR	CMR	CMR	CMR	CMR	DCMR	DCMR	DCMR	DCMR
Condition:	60MHZ	100MHZ	300MHZ	600MHZ	1000MHZ	1MHZ	10MHZ	30MHZ	50MHZ
Pins									
Unit	dB	dB	dB	dB	dB	dB	dB	dB	dB
HighLimit									
LowLimit	-38.4	-41.4	-31.9	-32	-38	-65	-65	-60	-56
Average =	-50.14	-53.49	-45.50	-50.53	-45.75	-81.93	-82.14	-75.38	-68.09
STD DEV =	0.66	1.23	2.25	2.09	0.58	2.84	2.88	1.98	2.13
Cpu									
Cpl	5.90	3.27	2.01	2.95	4.45	1.99	1.98	2.58	1.89
Cpk	5.90	3.27	2.01	2.95	4.45	1.99	1.98	2.58	1.89
DATA	-	-	-	-	-	-	-	-	-
1	-49.424	-51.891	-41.889	-47.533	-45.449	-81.332	-86.896	-77.008	-67.777
2	-50.157	-54.110	-46.818	-51.931	-45.921	-76.740	-80.269	-76.991	-65.820
3	-50.467	-54.249	-47.118	-51.495	-46.571	-85.215	-82.336	-74.592	-66.560
4	-50.579	-54.245	-46.989	-51.358	-46.395	-79.269	-80.155	-75.067	-70.420
5	-50.567	-54.140	-46.774	-52.173	-45.707	-80.231	-78.132	-78.603	-68.029
6	-50.710	-54.248	-46.694	-52.033	-45.893	-85.385	-85.321	-77.758	-65.431
7	-50.665	-54.616	-47.000	-52.792	-45.782	-81.162	-86.348	-71.848	-68.271
8	-50.444	-54.577	-47.474	-52.530	-46.365	-81.629	-86.577	-76.095	-66.065
9	-50.605	-54.173	-47.079	-51.786	-45.678	-84.621	-77.868	-75.234	-64.985
10	-50.752	-54.373	-46.767	-52.041	-45.527	-82.584	-82.566	-71.960	-65.991
11	-50.660	-54.129	-47.207	-51.971	-46.055	-77.602	-81.743	-73.475	-66.245
12	-50.587	-54.253	-46.969	-51.244	-46.044	-78.423	-83.940	-74.822	-70.411
13	-50.634	-54.357	-46.678	-51.994	-45.616	-82.970	-81.729	-73.014	-65.319
14	-50.097	-54.485	-47.203	-52.880	-46.165	-80.597	-84.387	-75.755	-70.345
15	-50.563	-53.984	-47.161	-51.574	-45.999	-76.821	-83.403	-79.583	-68.922
16	-50.673	-54.264	-47.037	-51.561	-46.299	-84.741	-79.022	-72.715	-67.769
17	-50.612	-54.540	-46.911	-52.103	-45.772	-81.241	-82.451	-74.510	-68.164
18	-50.742	-54.516	-46.677	-51.520	-46.253	-77.764	-84.063	-72.205	-70.540
19	-50.550	-54.248	-47.130	-51.253	-46.058	-86.107	-78.894	-74.856	-70.944
20	-50.838	-54.304	-46.885	-51.517	-45.527	-86.261	-80.889	-76.051	-68.514
21	-50.338	-54.020	-46.968	-51.600	-45.704	-80.224	-78.748	-76.984	-70.589
22	-50.330	-54.175	-46.887	-51.857	-45.600	-83.154	-83.930	-76.602	-71.143
23	-49.032	-51.338	-41.949	-46.659	-45.232	-87.201	-86.990	-76.870	-70.715
24	-49.424	-51.528	-42.312	-47.250	-45.573	-84.458	-80.793	-76.412	-68.587
25	-49.260	-51.559	-41.832	-47.387	-45.807	-81.406	-80.352	-77.015	-68.790
26	-49.158	-51.580	-42.323	-47.682	-43.189	-79.952	-78.725	-73.212	-71.162
27	-49.350	-51.525	-42.005	-46.686	-45.138	-80.784	-77.422	-75.529	-64.844
28	-48.717	-51.644	-42.244	-48.274	-45.913	-83.912	-82.687	-73.901	-66.043
29	-49.321	-51.936	-41.939	-47.575	-45.524	-83.625	-80.808	-78.181	-64.747
30	-48.870	-51.623	-42.180	-47.695	-45.775	-82.340	-86.762	-74.568	-69.663

Parameter	DCMR	DCMR	DCMR	DCMR	DCMR
Condition:	100MHZ	200MHZ	300MHZ	500MHZ	1000MHZ
Pins					
Unit	dB	dB	dB	dB	dB
HighLimit					
LowLimit	-50	-40	-35	-30	-25
Average =	-64.26	-54.68	-58.28	-52.33	-56.86
STD DEV =	2.71	2.72	3.35	2.91	3.38
Cpu					
Cpl	1.76	1.80	2.31	2.56	3.14
Cpk	1.76	1.80	2.31	2.56	3.14
DATA	-	-	-	-	-
1	-62.562	-51.227	-53.643	-48.408	-53.289
2	-67.153	-55.694	-58.900	-52.347	-55.856
3	-61.178	-56.357	-59.672	-53.561	-59.924
4	-64.069	-58.854	-65.598	-57.106	-64.684
5	-66.753	-54.999	-58.469	-52.971	-56.374
6	-60.871	-58.698	-62.064	-54.865	-59.399
7	-60.906	-54.409	-57.376	-52.382	-54.728
8	-60.780	-56.186	-59.734	-54.183	-57.332
9	-63.355	-54.026	-57.068	-52.446	-55.383
10	-68.180	-56.267	-58.573	-52.294	-55.996
11	-63.587	-56.208	-60.617	-53.406	-59.245
12	-67.320	-56.296	-58.881	-54.689	-56.248
13	-68.840	-57.921	-62.186	-55.315	-58.619
14	-64.565	-54.818	-58.750	-53.338	-56.085
15	-63.425	-56.379	-59.518	-53.595	-56.732
16	-68.120	-56.680	-59.582	-54.088	-62.156
17	-60.830	-53.549	-57.787	-52.450	-55.713
18	-61.123	-58.461	-64.610	-58.057	-65.839
19	-68.519	-56.275	-60.994	-53.838	-58.364
20	-63.835	-56.561	-60.895	-54.935	-58.959
21	-62.443	-56.357	-60.810	-54.733	-59.007
22	-61.252	-53.989	-57.584	-52.435	-55.508
23	-61.192	-50.195	-52.313	-47.240	-51.629
24	-67.017	-52.819	-55.705	-49.579	-54.790
25	-62.869	-52.413	-55.898	-50.218	-56.190
26	-65.009	-51.703	-52.658	-46.545	-51.591
27	-63.096	-50.477	-53.453	-47.836	-52.471
28	-66.372	-48.853	-53.237	-47.752	-52.979
29	-68.487	-54.523	-58.706	-51.513	-57.695
30	-64.147	-49.072	-53.088	-47.643	-52.886

Appendix 3
AE3003H Solderability Report

YAGEO PULSE GROUP

No#: 20260202001

PULSE TEST REPORT			
PRODUCT: AE3003H	**REVISION:** A	**DATE:** Feb 02nd 2026	**PREPARED BY:** Jufang Yang

1. TEST REQUIRED

-Solderability Test

2. SAMPLE SIZE

-45units

3. TEST CONDITION

- Per J-STD-002E
  a) Method B, 4hrs @ 155°C dry heat @ 235°C
  b) Method B @ 215°C category 3.
  c) Method D category 3 @ 260°C.

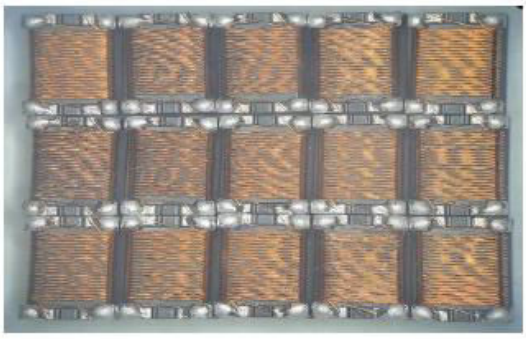
4. EQUIPMENT/INSTRUMENT USED

-2 gallon glass container with non corrosive basket
-Solder pot
-Microscope
-Digital Thermometer

5. TEST RESULT

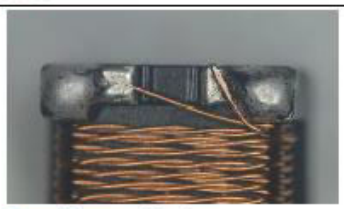
-The test result is PASS as both sample test area grater than 95% smooth solver coverage and test pictures as below table.

TABLE 1: result of a) Method B, 4hrs @ 155°C dry heat @ 235°C



Sample 1

Export Process Zone, High-Tech Industrial Development Zone, Mianyang, Sichuan,PR China
TEL#: (86-816)7077888-2012 FAX#(86)816 7077888-1008



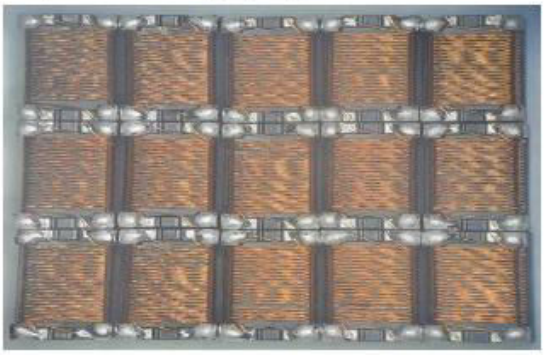
Sampling partial view

TABLE 2: result of Method B @ 215°C category 3.

Sample 2

Sampling partial view

TABLE 3: result of c) Method D category 3 @ 260°C.



Sample 3

Export Process Zone, High-Tech Industrial Development Zone, Mianyang, Sichuan,PR China
TEL#: (86-816)7077888-2012 FAX#(86)816 7077888-1008

Sampling partial view

Prepared by: Jufang Yang **Reviewed by: Colin Zhang**
Pulse MPO Lab Technician **Pulse MPO Lab Engineer**

----------End of the Report----------

Export Process Zone, High-Tech Industrial Development Zone, Mianyang, Sichuan,PR China
TEL#: (86-816)7077888-2012 FAX#(86)816 7077888-1008

Appendix 4

AE3003H Electrical Characterization Test Data

Parameter	OCL of 1st lot					
Condition:	-40C	-40C	25C	25C	125C	125C
Pins	1-4	2-3	1-4	2-3	1-4	2-3
Unit	uH	uH	uH	uH	uH	uH
HighLimit						
LowLimit	60	60	60	60	60	60
Average =	69.07	68.96	89.50	89.34	114.32	114.28
STD DEV =	1.52	1.69	3.72	3.66	6.07	5.97
Cpu						
Cpl	1.99	1.76	2.64	2.67	2.99	3.03
Cpk	1.99	1.76	2.64	2.67	2.99	3.03
DATA	-	-	-	-	-	-
1	71.311	71.009	89.15	89.31	117.69	117.29
2	70.568	70.098	89.63	89.7	111.98	111.72
3	69.056	68.196	91.67	91.23	114.95	115.08
4	69.809	69.994	92.63	92.47	117.62	117.08
5	69.608	69.378	84.69	85.04	103.28	103.71
6	67.725	67.695	87.92	87.84	109.69	109.83
7	70.843	70.646	86.92	86.36	108.65	108.92
8	68.763	69.195	86.92	86.96	111.52	111.5
9	69.856	69.894	95.66	95.07	127.92	127.98
10	68.252	68.054	85.47	84.95	107.35	107.98
11	68.462	68.649	91.09	90.88	115.96	115.72
12	71.364	71.269	84.76	84.79	105.96	105.27
13	67.728	66.971	90.22	90.11	117.96	117.2
14	66.457	67.034	90.62	90.6	112.76	112.82
15	69.166	68.382	83.69	83.09	103.96	103.82
16	70.862	70.56	94.19	93.82	118.09	118.72
17	70.27	69.783	91.48	91.85	119.42	119.38
18	70.442	71.027	83.69	83.14	107.96	107.92
19	67.881	67.52	94.62	94.03	121.61	121.72
20	67.31	66.638	85.69	86.16	110.36	110.98
21	67.326	67.867	95.65	95.67	121.69	121.73
22	69.277	69.242	89.62	89.13	115.93	115.03
23	66.897	66.708	85.89	86.3	115.69	115.72
24	66.635	65.966	91.62	91.14	119.65	119.62
25	68.079	67.933	91.26	90.94	117.69	117.28
26	71.909	72.559	95.31	94.92	121.28	120.99
27	70.813	71.794	91.17	91.12	116.35	116.82
28	69.588	69.431	89.69	89.48	115.97	115.37
29	67.392	66.393	91.41	91.45	118.37	118.29
30	68.416	68.815	82.62	82.56	102.34	102.91

	OCL of 2nd lot					
	-40C	-40C	25C	25C	125C	125C
	1-4	2-3	1-4	2-3	1-4	2-3
	uH	uH	uH	uH	uH	uH
	60	60	60	60	60	60
	68.76	68.79	89.00	89.00	115.43	115.38
	1.50	1.50	3.80	3.85	5.95	5.96
	1.95	1.95	2.55	2.51	3.10	3.10
	1.95	1.95	2.55	2.51	3.10	3.10
	-	-	-	-	-	-
	71.214	69.866	89.97	90.09	112.71	112.65
	70.318	69.691	83.47	83.08	105.62	105.42
	70.332	70.208	90.72	90.36	114.65	114.89
	67.702	68.422	92.74	93.21	116.01	115.96
	68.921	68.772	90.58	90.89	114.32	114.62
	67.574	68.282	89.37	89.08	113.26	113.75
	69.374	69.345	93.72	93.83	119.32	119.76
	68.799	68.519	87.38	87.85	109.07	109.07
	69.102	68.983	91.79	92.07	112.27	111.95
	70.573	70.6	90.45	89.95	109.01	109.23
	67.188	67.55	87.64	87.53	114.8	114.35
	68.722	67.893	83.03	83.19	120.19	120.15
	70.989	71.843	87.88	87.95	107.71	107.2
	67.016	66.109	88.97	88.63	126.31	126.18
	70.473	71.178	92.21	92	122.5	122.82
	66.416	66.943	84.17	84.21	108.08	107.85
	66.874	66.728	89.38	88.8	124.06	123.74
	69.423	69.715	95	95.31	110.46	110.17
	67.71	67.212	82.72	82.83	115.97	116.14
	66.656	67.422	83	83.39	121.66	121.31
	69.283	68.662	87.58	87.92	122	121.87
	70.691	70.535	94.93	94.71	113.1	113.04
	70.919	71.782	83.8	83.23	111.92	112.35
	69.71	70.512	91	91.4	106.24	105.88
	67.39	67.976	93.08	93.25	125.12	125.04
	66.605	67.283	84.73	84.35	111.84	111.89
	69.039	68.215	86.06	86.41	118.41	118.23
	69.238	68.519	87.02	87.02	110.55	110.77
	68.176	67.653	94.56	94.71	124.78	124.49
	66.502	67.253	93.01	92.88	120.98	120.74

	OCL of 3rd lot					
	-40C	-40C	25C	25C	125C	125C
	1-4	2-3	1-4	2-3	1-4	2-3
	uH	uH	uH	uH	uH	uH
	60	60	60	60	60	60
	68.94	69.22	88.96	88.87	116.90	116.84
	1.47	1.59	4.30	4.16	6.35	6.25
	2.02	1.93	2.25	2.31	2.99	3.03
	2.02	1.93	2.25	2.31	2.99	3.03
	-	-	-	-	-	-
	69.907	71.688	85.22	85.53	123.78	123.33
	71.875	67.964	89.88	89.3	110.89	111.12
	67.639	67.019	85.85	86.13	125.89	125.48
	67.945	65.967	89.54	89.94	113.31	113.37
	67.128	70.829	94.76	94.91	123.35	122.96
	70.321	70.553	95.16	94.66	123.62	123.47
	66.859	67.864	93.01	92.53	123.62	123.74
	68.481	69.932	87.71	87.34	123.78	123.4
	69.97	67.183	93.27	93.36	115.39	115.79
	68.756	67.662	83.47	83	108.85	109.03
	67.954	70.795	83.78	83.54	120.12	119.74
	69.929	69.916	93.85	93.85	116.56	116.63
	70.252	70.592	86.53	86.2	108.41	108.1
	66.864	69.812	86.37	86.68	119.9	120.19
	69.493	71.531	92.15	91.55	119.18	118.71
	69.354	67.379	85.18	85.37	126.31	126.18
	68.441	68.739	83.01	83.05	107.23	107.28
	70.858	70.281	82.59	82.76	107.61	108.1
	71.423	71.961	85.42	85.68	119.18	119.06
	67.296	68.791	90.81	90.7	106.53	106.33
	69.939	70.639	93.22	93.12	109.68	109.52
	67.162	68.783	84.86	85.02	121.64	121.54
	68.78	69.856	83.89	83.95	122.1	122.24
	69.769	68.589	89.24	89.03	110.15	110.37
	70.779	67.586	95.02	94.83	117.1	117.37
	68.81	70.111	84.2	84.44	116.74	116.83
	67.76	67.24	87.87	88.07	111.84	111.7
	66.589	68.086	94.87	94.34	112.1	111.93
	67.28	68.028	92.5	92.07	127.33	127.01
	70.612	71.151	95.42	95	114.89	114.77

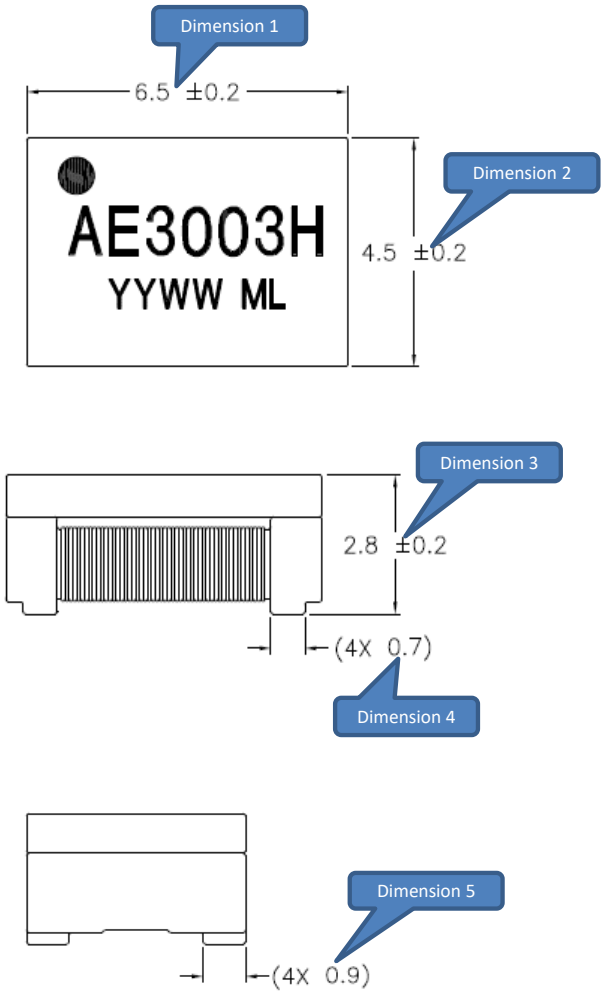
Appendix 5

AE3003H Terminal Strength Test

Specimens#	Test Condition	Test Result	Remark
1	1.8kg/f @60s holding	*Pass*	N/A
2	1.8kg/f @60s holding	*Pass*	N/A
3	1.8kg/f @60s holding	*Pass*	N/A
4	1.8kg/f @60s holding	*Pass*	N/A
5	1.8kg/f @60s holding	*Pass*	N/A
6	1.8kg/f @60s holding	*Pass*	N/A
7	1.8kg/f @60s holding	*Pass*	N/A
8	1.8kg/f @60s holding	*Pass*	N/A
9	1.8kg/f @60s holding	*Pass*	N/A
10	1.8kg/f @60s holding	*Pass*	N/A
11	1.8kg/f @60s holding	*Pass*	N/A
12	1.8kg/f @60s holding	*Pass*	N/A
13	1.8kg/f @60s holding	*Pass*	N/A
14	1.8kg/f @60s holding	*Pass*	N/A
15	1.8kg/f @60s holding	*Pass*	N/A
16	1.8kg/f @60s holding	*Pass*	N/A
17	1.8kg/f @60s holding	*Pass*	N/A
18	1.8kg/f @60s holding	*Pass*	N/A
19	1.8kg/f @60s holding	*Pass*	N/A
20	1.8kg/f @60s holding	*Pass*	N/A
21	1.8kg/f @60s holding	*Pass*	N/A
22	1.8kg/f @60s holding	*Pass*	N/A
23	1.8kg/f @60s holding	*Pass*	N/A
24	1.8kg/f @60s holding	*Pass*	N/A
25	1.8kg/f @60s holding	*Pass*	N/A
26	1.8kg/f @60s holding	*Pass*	N/A
27	1.8kg/f @60s holding	*Pass*	N/A
28	1.8kg/f @60s holding	*Pass*	N/A
29	1.8kg/f @60s holding	*Pass*	N/A
30	1.8kg/f @60s holding	*Pass*	N/A

Appendix 6

AE3003H Dimension Drawing



Appendix 7

AE3003H Dimension Test Data

Parameter	1	2	3	4-1	4-2	4-3	4-4	5-1	5-2	5-3	5-4
Unit	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
HighLimit	6.7	4.7	3	0.8	0.8	0.8	0.8	1	1	1	1
LowLimit	6.3	4.3	2.6	0.6	0.6	0.6	0.6	0.8	0.8	0.8	0.8
Average =	6.50	4.48	2.81	0.70	0.69	0.70	0.70	0.91	0.91	0.91	0.91
STD DEV =	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Cpu	3.22	5.50	6.81	3.20	3.11	3.04	2.76	2.74	2.69	3.20	2.98
Cpl	3.36	4.32	7.25	2.97	2.74	2.78	2.57	3.13	3.13	3.71	3.38
Cpk	3.22	4.32	6.81	2.97	2.74	2.78	2.57	2.74	2.69	3.20	2.98
DATA	-	-	-	-	-	-	-	-	-	-	-
1	6.53	4.49	2.8	0.68	0.71	0.71	0.68	0.91	0.92	0.9	0.91
2	6.48	4.46	2.81	0.7	0.68	0.69	0.68	0.92	0.91	0.9	0.89
3	6.47	4.5	2.79	0.7	0.7	0.71	0.71	0.91	0.92	0.92	0.91
4	6.48	4.48	2.82	0.69	0.69	0.7	0.68	0.92	0.89	0.9	0.92
5	6.52	4.48	2.81	0.71	0.7	0.68	0.69	0.9	0.91	0.92	0.89
6	6.49	4.46	2.79	0.71	0.68	0.68	0.71	0.92	0.91	0.9	0.91
7	6.48	4.46	2.8	0.71	0.69	0.69	0.71	0.89	0.89	0.91	0.92
8	6.5	4.5	2.8	0.7	0.69	0.69	0.71	0.92	0.92	0.89	0.9
9	6.53	4.48	2.81	0.71	0.71	0.69	0.71	0.89	0.89	0.91	0.91
10	6.51	4.46	2.81	0.69	0.69	0.7	0.71	0.92	0.91	0.92	0.91
11	6.53	4.47	2.81	0.71	0.69	0.69	0.7	0.92	0.89	0.92	0.89
12	6.53	4.49	2.8	0.7	0.69	0.69	0.68	0.92	0.91	0.89	0.89
13	6.51	4.47	2.81	0.68	0.68	0.71	0.68	0.91	0.91	0.91	0.89
14	6.51	4.49	2.81	0.71	0.68	0.71	0.71	0.9	0.89	0.9	0.92
15	6.48	4.46	2.8	0.69	0.68	0.69	0.7	0.9	0.9	0.91	0.91
16	6.52	4.49	2.81	0.68	0.71	0.71	0.68	0.89	0.92	0.91	0.92
17	6.5	4.48	2.82	0.69	0.7	0.7	0.71	0.89	0.89	0.92	0.9
18	6.47	4.48	2.8	0.68	0.68	0.71	0.7	0.9	0.91	0.9	0.92
19	6.52	4.46	2.82	0.69	0.71	0.68	0.7	0.9	0.92	0.91	0.9
20	6.53	4.48	2.82	0.7	0.71	0.68	0.71	0.92	0.9	0.9	0.92
21	6.5	4.46	2.79	0.7	0.71	0.69	0.68	0.92	0.92	0.92	0.9
22	6.47	4.46	2.82	0.71	0.71	0.7	0.71	0.9	0.92	0.92	0.91
23	6.5	4.49	2.8	0.7	0.69	0.7	0.68	0.91	0.92	0.89	0.91
24	6.51	4.5	2.8	0.7	0.69	0.71	0.71	0.89	0.92	0.92	0.9
25	6.48	4.47	2.81	0.68	0.7	0.68	0.7	0.89	0.9	0.9	0.9
26	6.49	4.47	2.8	0.71	0.7	0.68	0.69	0.92	0.91	0.91	0.92
27	6.52	4.47	2.81	0.69	0.68	0.7	0.68	0.91	0.91	0.91	0.9
28	6.51	4.47	2.81	0.69	0.68	0.71	0.69	0.91	0.91	0.9	0.9
29	6.52	4.46	2.82	0.68	0.68	0.68	0.7	0.9	0.89	0.9	0.9
30	6.53	4.49	2.79	0.7	0.7	0.71	0.69	0.9	0.92	0.91	0.92