


For Automotive / NFM Series

Jul.2019

Features


1. HC series is for power-train, safety equipment of automotive.
2. Excellent noise suppression characteristic especially in high frequency band
3. AEC-Q200 compliant products.

Chip size and Capacitance range

Automotive <HC>  2 :Rated Current (A(DC))

 Mass Production
 () Under Development

Type	Size code inch(mm)	DC Rated Voltage	Capacitance								Capacitance range
			10pF	100pF	1000pF	0.01uF	0.1uF	1uF	10uF		
NFM15	0402 (1005M)	6.3Vdc							2		(1uF)
		4Vdc							2		(1uF)
NFM18	0603 (1608M)	16Vdc							2		1uF
		6.3Vdc							2	2	1uF,(10uF)
		4Vdc								2	(10uF)
NFM21	0805 (2012M)	50Vdc			0.7	1	1	1	1		220pF -0.022uF
		16Vdc								4	1uF
		10Vdc							2	2	2

Large Current <HK> 

Type	Size code inch(mm)	DC Rated Voltage	Capacitance								Capacitance range	
			10pF	100pF	1000pF	0.01uF	0.1uF	1uF	10uF			
NFM31	1206 (3216M)	100Vdc						10				0.01uF
		50Vdc						10	10	6		0.01, 0.015, 0.022, 0.1uF

Regarding detailed specifications, please check catalog or product specification.
Information in this PDF are as of Jul.2019

They are subject to change or our products in it may be discontinued without advance notice.
Please check the latest information before usage of the products.

"You can search the murata P/N except the development items from the following URLs"
<http://psearch.en.murata.com/capacitor/lineup/nfm/>

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Global Part Numbering

NF M 21 HC 104 R 1C 3 D

-1- -2- -3- -4- -5- -6- -7- -8- -9-

-1-:Product ID

Code	Structure
NF	Chip EMIFIL

-2-:Structure

Code	Structure
M	Capacitor Type

-3-:Dimensions (LxW)

Code	Dimensions (LxW)
15	1.0x0.5mm
18	1.6x0.8mm
21	2.0x1.25mm
31	3.2x1.6mm

-4-:Features

Code	Features
HC	Automotive
HK	Large Current

-5-:Capacitance

Code	Capacitance
100	10pF
101	100pF
102	1,000pF
103	0.01uF
104	0.1uF
105	1uF
106	10uF

-6-:Characteristics

Code	Cap. Tol.
C	±22%
R	±15%, +15/-18%
U	-750±120ppm/°C

-7-:Rated Voltage

Code	DC Rated Voltage
0G	4Vdc
0J	6.3Vdc
1A	10Vdc
1C	16Vdc
1E	25Vdc
1H	50Vdc
2A	100Vdc

-8-:Electrode/Others

Code	Electrode
3	Sn Plating

-9-:Packaging

Code	Packaging
D	Φ180mm Paper Taping
L	Φ180mm Embossed Taping

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Automotive <HC>

Size code inch(mm)	Thickness (mm)	Cap.	DC Rated Voltage	Rated Current	Temp. Range(°C)	Murata Global P/N	Sample	M.P.
0402 (1005M)	0.4±0.1	1.0uF	6.3Vdc	2A(DC)	-55~+125	*NFM15HC105D0J3D	Available	20CQ1
			4Vdc		-55~+125	NFM15HC105D0G3D	Available	20CQ1
0603 (1608M)	0.6±0.1	1.0uF	16Vdc	2A(DC)	-55~+125	NFM18HC105C1C3D	Available	Available
			6.3Vdc			NFM18HC105C0J3D		
0603 (1608M)	1.25±0.1	10uF	6.3Vdc	2A(DC)	-55~+125	*NFM18HC106D0J3D	Available	20CQ1
			4Vdc		-55~+125	NFM18HC106D0G3D	Available	20CQ1

*:Recommended to use voltage / temperature derating condition.

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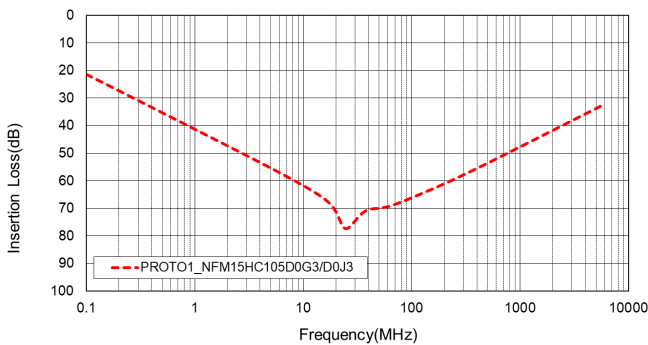
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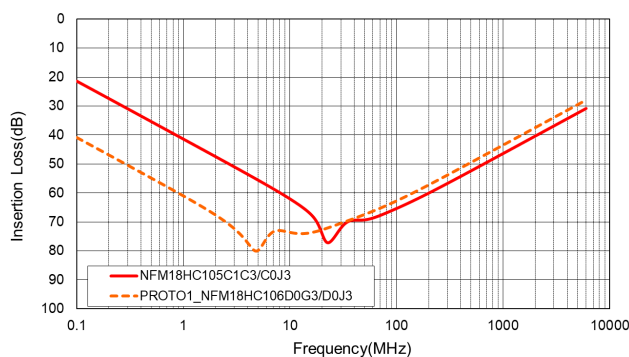
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Insertion Loss

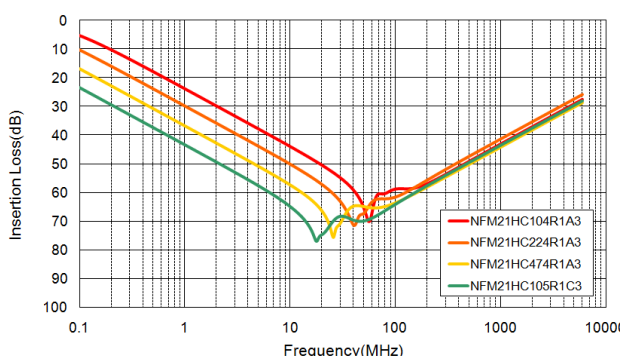
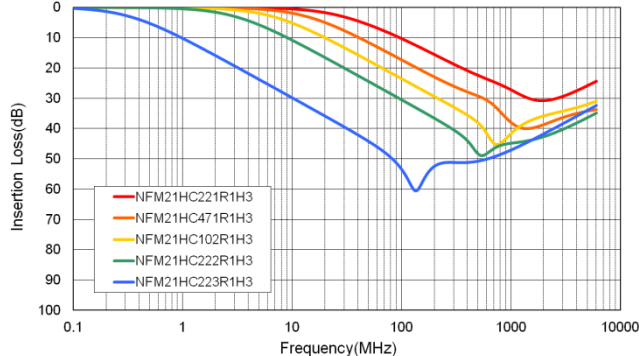
NFM15HC Series



NFM18HC Series



NFM21HC Series



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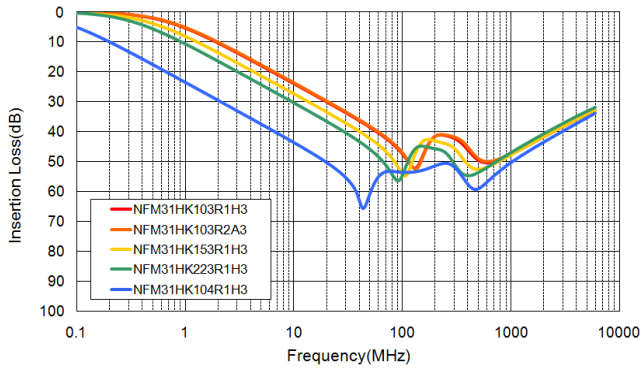
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NFM31HK Series



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