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SPECIFICATION FOR

Hi-Q and Low ESR MULTILAYER CERAMIC CHIP CAPACITORS

Series : HH Series

Description : Hi-Q Low ESR, Size 0402~0603, NPO , 16V to 100V,
RoHS Compliant

<u>DRAWN BY</u>	<u>CHECKED BY</u>	<u>APPROVED BY</u>
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1. FEATURES

- a. Hi-Q and Low ESR
- b. Quality improvement of telephone call, low power consumption, yield ratio improvement

2. APPLICATIONS

- a. VCO, PA, Mobile telecommunication
- b. RF Module

3. HOW TO ORDER

HH	15	N	100	J	160	L	T
<u>series</u>	<u>Size</u>	<u>Dielectric</u>	<u>Capacitance</u>	<u>Tolerance</u>	<u>Rated voltage</u>	<u>Termination</u>	<u>Packaging</u>
HH= Hi-Q/Low ESR	15=0402 (1005) 18=0603 (1608)	N=NPO (COG)	Two significant digits followed by no. of zeros. And R is in place of decimal point. Eg.: R47=0.47pF 0R5=0.5pF 1R0=1.0pF 100=10x10 ⁰ =10pF	B=±0.1pF C=±0.25pF D=±0.5pF F=±1% G=±2% J=±5% (B,C,D for Cap<10pF; F,G,J, for Cap≥10pF)	Two significant digits followed by no. of zeros. And R is in place of decimal point. 160=16 VDC 250=25 VDC 500=50 VDC 101=100 VDC	L=Ag/Ni/Sn	B=Bulk C=Bulk cassette T=7"reeled G=13"reeled

4. PACKAGING DIMENSION AND QUANTITY

Size	Thickness (mm)	Symbol	Paper Tape	
			7 inches reel	13 inches reel
0402	0.50±0.05	N	10K	20K
0603	0.80±0.07	S	4k	10K

5. GENERAL ELECTRICAL DATA

Dielectric	NPO
Size	0402, 0603
Capacitance range*	0.5pF ~ 3300pF
Capacitance tolerance	B(±0.1pF), C(±0.25pF), D(±0.5pF), J(±5%),
Rated voltage (WVDC)	16V, 25V, 50V, 100V,
Q Factor	See below Fig..
Insulation resistance at U_R^{**}	≥100GΩ
Operating temperature	-55 to +125 °C
Capacitance characteristic	0±30ppm/ °C
Termination	Ag / Ni / Sn

■ ELECTRICAL CHARACTERISTICS

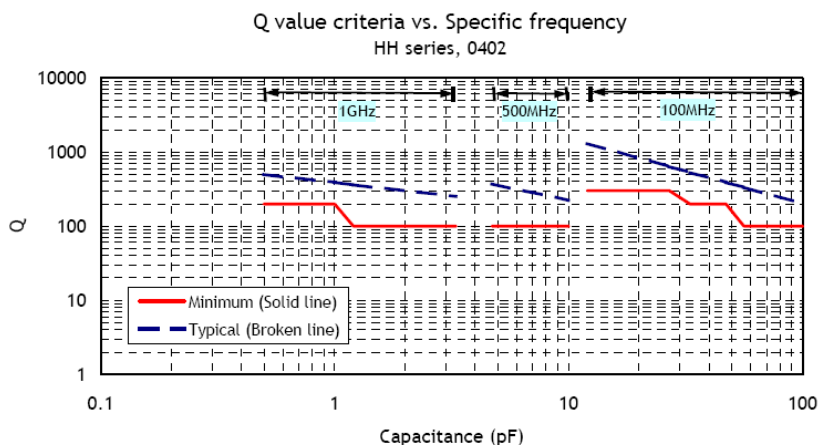


Fig. 2 Q factor specification vs. Specific frequency for 0402

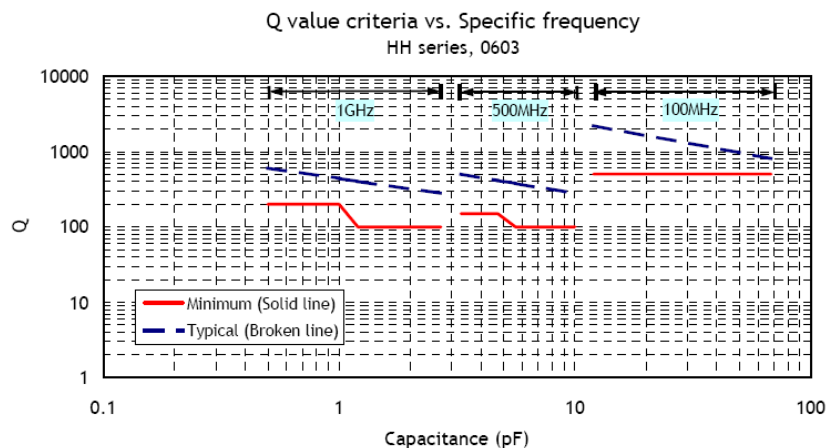


Fig. 3 Q factor specification vs. Specific frequency for 0603

6. CAPACITANCE RANGE

Dielectric		NPO				
Size		0402		0603		
Rated Voltage (VDC)		16	50	16	50	100
0.5pF (0R5)			N		S	S
0.6pF (0R6)			N		S	S
0.7pF (0R7)			N		S	S
0.8pF (0R8)			N		S	S
0.9pF (0R9)			N		S	S
1.0pF (1R0)			N		S	S
1.2pF (1R2)			N		S	S
1.5pF (1R5)			N		S	S
1.8pF (1R8)			N		S	S
2.2pF (2R2)			N		S	S
2.7pF (2R7)			N		S	S
3.3pF (3R3)			N		S	S
3.9pF (3R9)			N		S	S
4.7pF (4R7)			N		S	S
5.6pF (5R6)			N		S	S
6.8pF (6R8)			N		S	S
8.2pF (8R2)			N		S	S
10pF (100)			N		S	S
12pF (120)			N		S	S
15pF (150)			N		S	S
18pF (180)			N		S	S
22pF (220)			N		S	S
27pF (270)			N		S	S
33pF (330)			N		S	S
39pF (390)			N		S	S
47pF (470)			N		S	S
56pF (560)			N		S	S
68pF (680)			N		S	S
82pF (820)			N		S	S
100pF (101)			N		S	S
120pF (121)			N		S	S
150pF (151)			N		S	S
180pF (181)			N		S	S
220pF (221)			N		S	S
270pF (271)	N				S	S
330pF (331)	N				S	S
390pF (391)	N				S	S
470pF (471)	N				S	S
560pF (561)					S	
680pF (681)					S	
820pF (821)					S	
1,000pF (102)					S	
1,200pF (122)				S		
1,500pF (152)				S		
1,800pF (182)				S		
2,200pF (222)				S		
2,700pF (272)				S		
3,300pF (332)				S		

1. The letter in cell is expressed the symbol of product thickness.
2. For more information about products with special capacitance or other data, please contact us.