

RF High-Q Multilayer Ceramic Capacitor



●Features

- *High Q, Ultra-low ESR, Ultra-low ESL
- *Temperature coefficient $0 \pm 30 \text{ppm}/^\circ\text{C}$ ($-55^\circ\text{C} \sim +125^\circ\text{C}$)

●Application

- *Cellular base stations
- *Wireless communication
- *RF matching networks



●Product Part Number Expression:

$\frac{1111}{\text{①}}$ $\frac{CG}{\text{②}}$ $\frac{101}{\text{③}}$ $\frac{J}{\text{④}}$ $\frac{501}{\text{⑤}}$ $\frac{N}{\text{⑥}}$ $\frac{T}{\text{⑦}}$

①Dimensions		
Type	British(inch)	Metric (mm)
0603	0.06×0.03	1.60×0.80
0805	0.08×0.05	2.00×1.20
0505	0.055×0.055	1.40×1.40
1111	0.11×0.11	2.79×2.79

②Dielectric Type	
Code	Dielectric Material
CG	COG

③Nominal Capacitance (PF)	
Expression Method	Actual Value
100	10×10^0
101	10×10^1

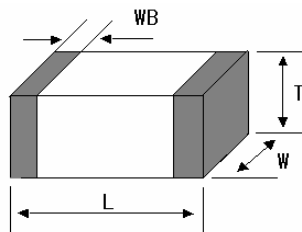
④Capacitance Tolerance	
Code	Tolerance
B	$\pm 0.1 \text{pF}$
J	$\pm 5\%$

⑤Rated Voltage	
Expression Method	Actual Value
500	50V
501	500V
102	1000V

⑥Termination Type	
Expression Method	Termination
S	Pure Silver
C	Pure Copper
N	Three Layers Plating Terminal (Silver or Copper layer/Nickel layer/Tin layer)

⑦Package Method	
Expression Method	Packaging
No Mark	Bulk Packaging in a Bag
T	Taping Packaging
B	Bulk Plastic Box Packaging

●Outside Dimension



Type		Dimension (mm)			
British expression	Metric expression	L	W	T	WB
0603	1608	1.60 ± 0.20	0.80 ± 0.20	0.80 ± 0.10	0.30 ± 0.10
0805	2012	2.00 ± 0.20	1.20 ± 0.20	0.80 ± 0.10	0.50 ± 0.25
0505	1212	1.40 ± 0.38	1.4 ± 0.38	0.51~1.45	0.30 ± 0.05
1111	2828	2.79 ± 0.51	2.79 ± 0.51	0.76~2.59	0.50 ± 0.10

● Capacitance Range

Item	RF High Q Multilayer Chip Ceramic Capacitor							
Size	0603	0805	0505	1111				
Rated Voltage	250V	250V	150V	50V	100V	200V	300V	500V
Capacitance								
0. 1pF								
0. 3pF								
0. 5pF								
1. 0pF								
2. 2pF								
3. 3pF								
4. 7pF								
5. 6pF								
6. 8pF								
10pF								
22pF								
33pF								
47pF								
68pF								
100pF								
220pF								
470pF								
680pF								
1000pF								