

## High-Q MLCC for General-use

High-Q MLCC for General-use is class I high frequency capacitor.

- Features:

- \* It has High frequency and high Q value, its using frequency is 1MHz~3GHz.
- \* It has multi-layer monolithic structure, has high reliability.
- \* It has good solderability and soldering resistance, suitable for flow soldering/ reflow soldering.

- Applications:

It is suitable for ultra-high frequency RF circuits and Hi-Q, low ESR, high frequency response microwave circuits.

- Product Part Number Expression:



①Dimensions		
Type	British (Inch)	Metric (mm)
0402	0.04×0.02	1.00×0.50
0603	0.06×0.03	1.60×0.80
0805	0.08×0.05	2.00×1.25

②Dielectric Type
Code
CQ or CF

③Normal Capacitance(PF)	
Expression Method	Actual Value
100	$10 \times 10^0$
101	$10 \times 10^1$
102	$10 \times 10^2$

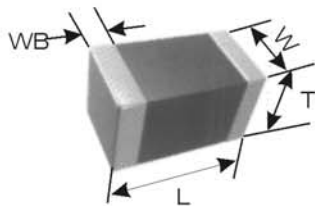
④Capacitance Tolerance	
Code	Tolerance
J	±5.00%
G	±2.00%
C	±0.25PF
B	±0.10PF
D	±0.50PF

⑤Rated Voltage	
Expression Method	Actual Value
250	25V
500	50V
101	100V
201	200V

⑥Termination Type	
Expression Method	Termination Material
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
0402	1005	$1.00 \pm 0.05$	$0.50 \pm 0.05$	$0.50 \pm 0.05$	$0.25 \pm 0.10$
0603	1608	$1.60 \pm 0.10$	$0.80 \pm 0.10$	$0.80 \pm 0.10$	$0.30 \pm 0.10$
0805	2012	$2.00 \pm 0.20$	$1.25 \pm 0.20$	$0.80 \pm 0.10$ $1.00 \pm 0.10$ $1.25 \pm 0.20$	$0.50 \pm 0.25$

## High Power High-Q MLCC

High power high-Q MLCC for General-use is class I high frequency capacitor.

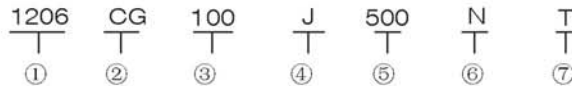
### Features

- \* The dielectric is composed of low dielectric loss ceramics. This series is perfectly suited to high-frequency applications (VHS-microwave band).
- \* It has multi-layer monolithic structure, has high reliability.
- \* It has good solderability and soldering resistance, suitable for flow soldering/reflow soldering.

### Applications

It is suitable for high-frequency and high power circuits. Can be applied for ultra-high frequency RF circuits and Hi-Q, low ESR, high frequency response microwave circuits.

### Product Part Number Expression



①Dimensions		
Type	British (Inch)	Metric (mm)
1206	0.12×0.06	3.2×1.6
1812	0.18×0.12	4.5×3.2
2225	0.22×0.25	5.7×6.3

②Dielectric Type	
Code	
CG	

③Normal Capacitance(PF)	
Expression Method	Actual Value
100	$10 \times 10^0$
101	$10 \times 10^1$
102	$10 \times 10^2$

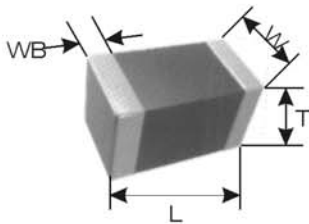
④Capacitance Tolerance	
Code	Tolerance
J	±5%
K	±10%

⑤Rated Voltage	
Expression Method	Actual Value
6R3	6.3V
500	50V
101	100V

⑥Termination Type	
Expression Method	Termination Material
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
1206	3216	$3.20 \pm 0.30$	$1.60 \pm 0.20$	$0.80 \pm 0.10$ $1.00 \pm 0.10$ $1.25 \pm 0.10$	$0.50 \pm 0.25$
1812	4532	$4.50 \pm 0.40$	$3.20 \pm 0.30$	$\leq 2.5$	$0.50 \pm 0.10$
2225	5763	$5.70 \pm 0.50$	$6.30 \pm 0.50$	$\leq 2.5$	$1.0 \pm 0.25$

• Capacitance Range

Item	High-Q MLCC for General-use										High Power High-Q MLCC					
Dielectric Size	CF				CQ						CQ					
Demension	0603		0805		0402		0603		0805		1206		1812		2225	
Rated Volatage	25V	50V	25V	50V	25V	50V	25V	50V	25V	50V	25V	50V	25V	50V	25V	50V
Capacitance																
0.5PF																
1PF																
2PF																
3PF																
4PF																
5PF																
6PF																
7PF																
8PF																
10PF																
15PF																
18PF																
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330PF																
470PF																
560PF																
680PF																
820PF																
1000PF																
1200PF																