

# Multilayer Chip Ceramic Capacitors

## EC6 High voltage Multilayer Chip Ceramic Capacitors

EIECSOUND®

### DC Medium-voltage MLCC

DC Medium-voltage MLCC has good high-voltage reliability it is made in special design that based on the MLCC technology and equipments. It is suitable for surface-mounting can improve the properties of circuits

### Features

New monolithic structure

The size of the capacitor is small yet has high electrostatic capacitance can operate at high-voltage levels

Has good solderability.

Technology Parameter (refer to the picture below)

Rated Voltage	Measuring Condition	max charging current	Measuring Time
≤1000V	1.5×Ur.	50mA	5S
1000V~2000V	1.2×Ur.	50mA	5S
≥2000V	1.2×Ur.	10mA	5S

### Applications:

DC-DC converter.

The circuit filter and vibration bell of telephone electrograph and modem

Snubber circuit for switching power supply

### Product Part NUMBER Expression:

1206	CG	100	J	202	N	T
①	②	③	④	⑤	⑥	⑦

### ①Dimensions

Type	0603	0805	1206	1210	1808	1812	2225
British(Inch)	0.60×0.30	0.08×0.05	0.12×0.06	0.12×0.10	0.18×0.08	0.18×0.12	0.22×0.25
Metric(mm)	1.6×0.8	2.0×1.25	3.2×1.6	3.2×2.5	4.5×2.0	4.5×3.2	5.7×6.3

### ② Dielectric Type

Code	CG	B	F
Dielectric Material	COG or NPO	X7R	Y5V

### ③Normal Capacitance(PF)

Expression Method	100	101	102
Actual Value	10×100	10×101	10×102

### ④Capacitance Tolerance

### ⑤Rated Voltage

Code	J	K	Expression Method	6R3	500	101
Tolerance	±5%	±10%	Actual Value	6.3V	50V	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
NOMARKS	Bulk Packaging in a Bag
T	Taping Packaging
B	Bulk Plastic Box Packaging

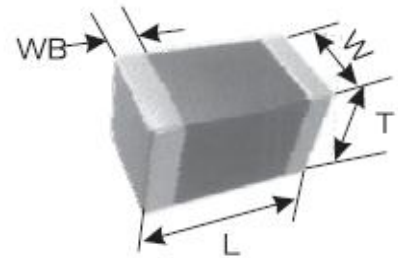
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### Outside Dimension

Type		Dimension (mm)			
British expression	Metric expression	L	W	T	WB
0603	1608	1.60±0.10	0.80±0.10	0.80±0.10	0.30±0.10
0805	2012	2.00±0.20	1.25±0.20	0.80±0.20	0.50±0.25
				1.00±0.20	
				1.25±0.20	
1206	3216	3.20±0.30	1.60±0.20	0.80±0.10	0.50±0.25
				1.00±0.10	
				1.25±0.20	
1210	3225	3.20±0.30	2.50±0.20	≤2.5	0.50±0.25
1808	4520	4.50±0.40	2.00±0.20	≤2.0	0.50±0.10
1812	4532	4.50±0.40	3.20±0.30	≤2.5	0.50±0.10
2225	5763	5.70±0.50	6.30±0.50	≤2.5	1.0±0.25



Size	Rated Voltage	Capacitance Range(pf)			Size	Rated Voltage	Capacitance Range(pf)		
		NPO	X7R	Y5V			NPO	X7R	Y5V
0603	100v	0.5~820	100~10,000	2,200~100,000	1808	2000v	10-470	150-10000	-----
	200v	0.5~470	100~6,800	-----		3000v	10-470	150-2200	-----
0805	100v	0.5~1500	150~100,000	10,000~100,000		4000v	10-220	150-1000	-----
	200v	0.5~1500	150~22,000	10,000~56,000		5000v	10-22		
	250v	0.5~1500	150~22,000	10,000~56,000		100v	10-10000	150-330000	10000-1000000
1206	500v	0.5~560	150~10,000	-----		200v	10-5600	150-150000	10000-470000
	100v	0.5~3300	150-220000	10000~330000	250v	10-5600	150-150000	10000-470000	
	200v	0.5~2700	150-120000	10000~150000	500v	10-3900	150-120000	-----	
	250v	0.5~2700	150-120000	10000~150000	1000v	10-1200	150-27000	-----	
	500v	0.5~1500	150-33000	-----	2000v	10-680	150-12000	-----	
	1000v	0.5~750	150-10000	-----	3000v	10-470	150-4700	-----	
1210	2000v	0.5~270	150-2200	-----	4000v	10-220	150-3300	-----	
	100v	10-4700	150-47000	10,000 1,000,00	5000v	10-68			
	200v	10-3300	150-220000	10,000 470,000	100v	10-27000	150-1000000	10000-2000000	
	250v	10-3300	150-220000	10,000 470,000	200v	10-12000	150-470000	10000-680000	
	500v	10-2200	150-33000	-----	250v	10-12000	150-470000	10000-680000	
	1000v	10-1000	150-10000	-----	500v	10-6800	150-330000	-----	
1808	2000v	10-470	150-6800	-----	1000v	10-2200	150-56000	-----	
	100v	1-4700	150-220000	10000-820000	2000v	10-1000	150-33000	-----	
	200v	10-3300	150-100000	10000-390000	3000v	10-680	150-12000	-----	
	250v	10-3300	150-100000	10000-390000	4000v	10-5660	150-10000	-----	
	500v	10-1800	150-56000	-----	5000v	10-120	150-3300	-----	
	1000v	10-820	150-15000	-----					