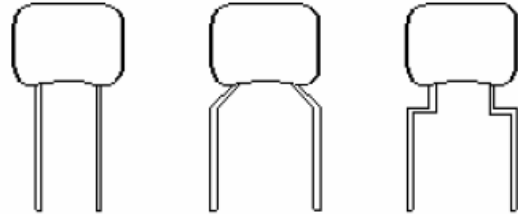


# MULTILAYER CERAMIC CAPACITOR

## MLC TYPE

### FEATURES

- Voltage Range : 10V ~3KVDC.
- COG, NPO, X7R, X5R, Y5V Temperature coefficients.
- High capacitance in miniature size with high performance and reliability.
- Lead material : Tinned copper wire.



### CAPACITANCE RANGE

Unit : pF

SIZE	W.V. (DC)	COG / NPO	X7R / X5R	Y5V
4.5mm	10V	—	560000—1000000	—
	16V	—	3900—4700000	220000—2200000
	25V	2700—3900	27000—2200000	100000—3300000
	50V	0.5—2400	220—2200000	10000—2200000
	100V	62—680	2200—15000	4700—220000
	250V	1.5—220	220—8200	—
5.5mm	10V	—	2200000—10000000	47000000
	16V	—	560000—10000000	220000—4700000
	25V	6800—10000	180000—2200000	220000—4700000
	50V	0.5—6200	220—2200000	10000—2200000
	100V	750—2200	27000—2200000	33000—2200000
	250V	240—1000	10000—22000	33000—47000
	500V	1.5—470	220—10000	—
	1000V	1—470	—	—
	2000V	220	220	—

### CHARACTERISTICS

DIELECTRIC	COG / NPO	X5R	X7R	Y5V
RATED VOLTAGE	10VDC ~3000VDC			
CAPACITANCE RANGE	0.5pF to 47uF			
CAPACITANCE TOLERANCE	D= ±0.5pF (10pF & below) J= ±5% (10pF & above)	K= ±10% M= ±20% Z= +80%~-20%		M= ±20% Z= +80%~-20%
OPERATING TEMP.	-55°C ~ +125°C	-55°C ~ +85°C	-55°C ~ +125°C	-25°C ~ +85°C
CAPACITANCE CHANGE	0±30ppm/°C	±15%		+22%~-82%
CAPACITANCE TEST: @25°C	1.0 Vrms±0.2, 1KHz±10% 1.0 Vrms±0.2, 1MHz±20% for Capacitance ≤ 1000pF	1.0±0.2 Vrms, 1KHz±10%		
Q/DISSIPATION FACTOR	C < 30pF : Q ≥ 400+20C C ≥ 30pF : Q ≥ 1000 0.1% Max.	≥ 50V : 2.5%~3% 25V : ≤ 3.5%~10% 16V : ≤ 3.5%~10% 10V : ≤ 5.0%~10% 6.3V : ≤ 10%~15%		≥ 50V : 5%~7%. 25V : ≤ 5%~9% 16V : ≤ 7%~12.5% 10V : ≤ 12.5% 6.3V : ≤ 20%
INSULATION RESISTANCE	10GΩ or 500MΩ.uF, whichever is less than 25°C			