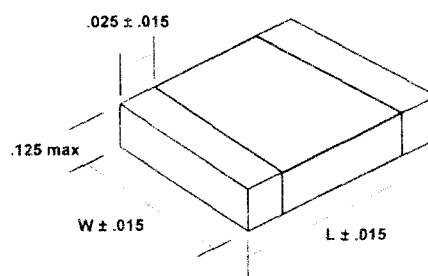


Multilayer Ceramic Chip Capacitors - HIGH VOLTAGE Series

Part Number Construction

MC1812	X	102	K	P	500	TR
Size ¹	T.C. ²	Capacity ³	Tolerance ⁴	Termination ⁵	WVDC ⁶	Packaging ⁷

- Size: 1812, 1825, 2020, 4040, 5550, 6560
- Temperature Coefficient: N=NPO; X=X7R
- Capacity: The first two digits are significant, the last digit indicates the number of zeros.
- Tolerance: J=5%; K=10%
- Termination: P=Palladium Silver
- Voltage: The first two digits are significant, the last digit indicates the number of zeros.
- Packaging: Omit for bulk pack; TR=Tape and reel



Size Specifications
Variables listed below.

NPO

SIZE	1812	1825	2020	4040	5550	6560
L	.175	.175	.200	.400	.550	.650
W	.125	.250	.200	.400	.500	.600
WVDC	Max Capacitance Values					
500V	3900	.01μF	.01μF	.056μF	.01μF	.15μF
1kV	1500	3300	2700	.018μF	.033μF	.047μF
2kV	560	1200	1000	6800	.012μF	.018μF
3kV	220	470	390	2200	4700	6800

- NOTES: 1. Values are in pF unless otherwise specified.
2. Dimensions are in inches.

GENERAL SPECIFICATIONS

Capacitance Range: 10pF to .15μF
Dissipation Factor: .15% max
(measured @ 25°C @ 1.0 VRMS @ 1MHz for values through 100 pF and 1 KHz for all higher values)
Operating Temp. Range: -55°C to +125°C
Temperature Coefficient: 0 ± 30ppm/°C over temp. range
Dielectric withstanding voltage:
500V: 1.5 x rated voltage
1000V: 1.5 x rated voltage
>1kV: 1.2 x rated voltage
Insulation Resistance: 1,000 Ohm-farad or 100,000 megOhms min., whichever is less
Termination is Palladium Silver

X7R

SIZE	1812	1825	2020	4040	5550	6560
L	.175	.175	.200	.400	.550	.650
W	.125	.250	.200	.400	.500	.600
WVDC	Max Capacitance Values					
500V	.033μF	.068μF	.056μF	.33μF	.68μF	1.0μF
1kV	.018μF	.039μF	.033μF	.22μF	.39μF	.56μF
2kV	4700	.01μF	8200	.056μF	.1μF	.15μF
3kV	1800	3300	2700	.022μF	.039μF	.056μF

- NOTES: 1. Values are in pF unless otherwise specified.
2. Dimensions are in inches.

GENERAL SPECIFICATIONS

Capacitance Range: 10pF to 1.0μF
Dissipation Factor: 2.5% max
(measured @ 25°C @ 1.0 VRMS @ 1KHz)
Operating Temp. Range: -55°C to +125°C
Temperature Coefficient: 0 ± 15% from -55°C to +125°C
Dielectric withstanding voltage:
500V: 2.5 x rated voltage
1000V: 1.5 x rated voltage
>1kV: 1.2 x rated voltage
Insulation Resistance: 1,000 Ohm-farad or 100,000 megOhms min., whichever is less.
Termination is Palladium Silver

