

Multilayer Ceramic Chip Capacitors Low Inductance



FEATURES

- Low inductance, typically half the inductance of standard product.
- Reduces AC noise in multi-chip modules (MCM).
- Low profile, robust device for easy mounting.

GENERAL SPECIFICATIONS

NOTE: Electrical characteristics at + 25 °C unless otherwise specified.

Capacitance Range: 8200 pF to 0.33 μ F.

Inductance: 0.4 nH.

Temperature Coefficient of Capacitance (TCC):
 $\pm 15\%$ from - 55 °C to + 125 °C.

Dissipation Factor (DF):

25 V ratings, 3.5 % maximum at 1.0 V_{rms} and 1kHz.
50 V ratings, 2.5 % maximum at 1.0 V_{rms} and 1kHz.

Aging Rate: 1 % maximum per decade.

Insulation Resistance (IR):

At + 25 °C and rated voltage 100,000 M Ω minimum or 1000 Ω F, whichever is less.

At + 125 °C and rated voltage 10,000 M Ω minimum or 100 Ω F, whichever is less.

Dielectric Withstanding Voltage (DWV):

This is the maximum voltage the capacitors are tested for a 1 to 5 second period and the charge/discharge current does not exceed 50mA

≤ 50 V DC : DWV at 250 % of rated voltage.

ORDERING INFORMATION

VJ0612	Y	104	K	X	A	A	T
CASE CODE	DIELECTRIC	CAPACITANCE NOMINAL CODE	CAPACITANCE TOLERANCE	TERMINATION	DC VOLTAGE RATING	MARKING	PACKAGING
0612	Y = X7R	Expressed in picofarads (pF). The first two digits are significant, the third is a multiplier. Example: 104 = 100 000 pF	J = $\pm 5\%$ K = $\pm 10\%$ M = $\pm 20\%$	X = Ni barrier 100% tin plated.	J = 16 V X = 25 V A = 50 V	A = Unmarked	T = 7" reel / plastic tape C = 7" reel / paper tape R = 11 1/4" reel / plastic tape P = 11 1/4" reel / paper tape

Note

1. DC voltage rating should not be exceeded in application



CAPACITANCE VS VOLTAGE				
CAPACITANCE CODE	CAPACITANCE	VJ0612		
		VOLTAGE (Vdc)	VOLTAGE (Vdc)	VOLTAGE (Vdc)
		16	25	50
822	8200 pF			
103	0.010 μF			
123	0.012 μF			
153	0.015 μF			
183	0.018 μF			
223	0.022 μF			
273	0.027 μF			
333	0.033 μF			
393	0.039 μF			
473	0.047 μF			
563	0.056 μF			
683	0.068 μF			
823	0.082 μF			
104	0.10 μF			
124	0.12 μF			
154	0.15 μF			
184	0.18 μF			
224	0.22 μF			
274	0.27 μF			
334	0.33 μF			



TYPICAL PARAMETERS

