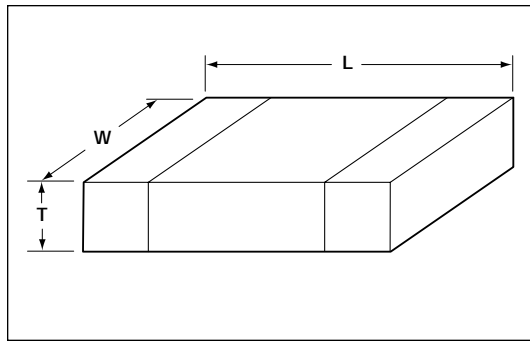


Multilayer Ceramic Chip Capacitor

Standard EIA Sizes



HOW TO ORDER

0603 5 A 271 J A T 2 A

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

- ① **Size:** 0402, 0603, 0805, 1206, 1210, 1812, 1825
- ② **Voltage:** 10V=Z, 16V=Y, 25V=3, 50V=5, 100V=1, 200V=2
- ③ **Dielectric:** NP0=A, X7R=C, Z5U=E, Y5V=G
- ④ **Capacitance Code**
- ⑤ **Tolerance:**
F=±1% (≥50pF), G=±2% (≥25pF), J=±5%
K=±10%, M=±20%, Z=+80, -20%
- ⑥ **Failure Rate:** A = Standard
- ⑦ **Termination:**
T = Plated Ni and Solder
- ⑧ **Packaging:**
2 = 7" Reel/unmarked
4 = 13" Reel/unmarked
- ⑨ **Special Code:**
A = Standard Product

Dimensions: millimeters (inches)

	L	W	T
0402	1.0±0.1 (0.039±0.004)	0.5±0.1 (0.020±0.004)	0.6 max. (0.024 max.)
0603	1.6±0.15 (0.063±0.006)	0.8±0.15 (0.031±0.006)	0.9 max. (0.035 max.)
0805	2.0±0.2 (0.079±0.008)	1.25±0.2 (0.049±0.008)	1.3 max. (0.051 max.)
1206	3.2±0.2 (0.126±0.008)	1.6±0.2 (0.063±0.008)	1.5 max. (0.059 max.)
1210	3.2±0.2 (0.126±0.008)	2.5±0.2 (0.098±0.008)	1.7 max. (0.067 max.)
1812	4.5±0.3 (0.177±0.012)	3.2±0.2 (0.126±0.008)	1.7 max. (0.067 max.)
1825	4.5±0.3 (0.177±0.012)	6.4±0.4 (0.252±0.016)	1.7 max. (0.067 max.)

Standard Packaging

	BULK	TAPE & REEL	
		7"	13"
0402	50,000	10,000	N/A
0603	15,000	4,000	10,000
0805	10,000 (T=0.6mm) 5,000 (T=1.25mm)	4,000	10,000
1206	N/A	4,000	10,000
1210	N/A	4,000	10,000

Capacitance Range

Type		NP0				X7R				Z5U		Y5V					
		25V	50V	100V	200V	10V	16V	25V	50V	100V	200V	25V	50V	10V	16V	25V	50V
0402	Min.	0.5pF	0.5pF	—	—	—	100pF	100pF	100pF	—	—	—	—	2200pF	2200pF	2200pF	2200pF
	Max.	220pF	120pF	—	—	—	.047µF	6800pF	3900pF	—	—	—	—	0.1µF	.1µF	.022µF	0.01µF
0603	Min.	0.5pF	0.5pF	0.5pF	—	100pF	100pF	100pF	100pF	100pF	—	.01µF	.01µF	2200pF	2200pF	2200pF	2200pF
	Max.	1000pF	1000pF	330pF	—	.22µF	0.1µF	.047µF	.015µF	4700pF	—	.047µF	.027µF	1.0µF	.33µF	.22µF	.056µF
0805	Min.	0.5pF	0.5pF	0.5pF	0.5pF	100pF	100pF	100pF	100pF	100pF	220pF	.01µF	.01µF	.01pF	.01µF	.01µF	.01µF
	Max.	4700pF	2200pF	1000pF	470pF	2.2µF	.47µF	.22µF	.1µF	.022µF	1500pF	.12µF	.1µF	4.7µF	2.2µF	1.0µF	.33µF
1206	Min.	0.5pF	0.5pF	0.5pF	0.5pF	1000pF	1000pF	1000pF	1000pF	1000pF	330pF	.01µF	.01µF	.01µF	.01µF	.01µF	.01µF
	Max.	.01µF	4700pF	2200pF	1000pF	4.7µF	1.0µF	1.0µF	.22µF	0.1µF	5600pF	.33µF	.33µF	10.0µF	4.7µF	2.2µF	1.0µF
1210	Min.	560pF	560pF	560pF	560pF	—	1000pF	1000pF	1000pF	1000pF	470pF	.01µF	.01µF	.1µF	.1µF	.1µF	.1µF
	Max.	.01µF	.01µF	3900pF	1500pF	—	4.7µF	2.2µF	.22µF	.1µF	8200pF	.56µF	.47µF	22µF	10µF	4.7µF	1.0µF
1812	Min.	1000pF	1000pF	1000pF	1000pF	—	—	—	.01µF	.01µF	—	.01µF	.01pF	—	—	.15µF	.15µF
	Max.	.015µF	.01µF	4700pF	3300pF	—	—	—	1.0µF	.47µF	—	1.0µF	1.0µF	—	—	1.5µF	1.5µF
1825	Min.	—	1000pF	1000pF	1000pF	—	—	—	.01pF	.01pF	—	.01µF	.01pF	—	—	.47µF	.47µF
	Max.	—	.022µF	.012µF	6800pF	—	—	—	1.0µF	.47µF	—	1.0µF	1.0µF	—	—	1.5µF	1.0µF

For maximum capacitance - consult factory.

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