

◆ Features

A wide selection of sizes is available (0201 to 2225)

High capacitance in given case size.

RoHS & REACH Compliance



◆ Specifications

Dielectric	NP0	X7R	X5R	Y5V
Size	0201, 0402, 0603, 0805, 1206, 1210, 1812, 1825, 2220, 2225			
Capacitance range	0.1pF to 0.27μF	100pF to 47μF	100pF to 220μF	0.01μF to 100μF
Capacitance tolerance	Cap ≤ 5pF#1: A (±0.05pF), B (±0.1pF), C (±0.25pF) 5pF < Cap < 10pF: C (±0.25pF), D (±0.5pF) Cap ≥ 10pF: F (±1%), G (±2%), J (±5%), K (±10%)	J (±5%), K (±10%), M (±20%)	K (±10%), M (±20%)	M (±20%), Z (-20/+80%)
Rated voltage (WVDC)	10V, 16V, 25V, 50V, 100V	4V, 6.3V, 10V, 16V, 25V, 50V, 100V		
Operating temperature	-55 to +125°C		-55 to +85°C	-25 to +85°C
Capacitance characteristic	±30ppm	±15%	±15%	+30/-80%
Termination	Ni/Sn (lead-free termination)			

#1: NP0, 0.1pF product only provide B tolerance

◆ The Outlines and External Dimensions of Capacitors

Outline	Size Inch (mm)	L (mm)	W (mm)	T (mm)/Symbol	Soldering Method *	M _B (mm)	
	01R5 (0402)	0.4±0.02	0.2±0.02	0.2±0.02	V	R	0.10±0.03
	0201 (0603)	0.6±0.03	0.3±0.03	0.3±0.03	L	R	0.15±0.05
		0.6±0.05 ^{#2}	0.3±0.05 ^{#2}	0.3±0.05 ^{#2}			0.15±0.1/-0.05
		0.6±0.09 ^{#3}	0.3±0.09 ^{#3}	0.3±0.09 ^{#3}			
	0402 (1005)	1.00±0.05	0.50±0.05	0.50±0.05	N	R	0.25 +0.05/-0.10
		1.00±0.20	0.50±0.20	0.5±0.20	Q	R	
		1.60±0.10	0.80±0.10	0.80±0.07	E	R	
	0603 (1608)	1.60±0.15/-0.10	0.80±0.15/-0.10	0.50±0.10	S	R / W	0.40±0.15
				0.80±0.15/-0.10	H	R / W	
				0.8±0.20 ^{#1}	X	R / W	
	0805 (2012)	2.00±0.15	1.25±0.10	0.50±0.10	H	R / W	0.50±0.20
				0.60±0.10	A	R / W	
				0.80±0.10	B	R / W	
				1.25±0.10	D	R	
				0.85±0.10	T	R / W	
	1206 (3216)	3.20±0.20	1.60±0.20	1.25±0.20	I	R	0.60±0.20 (0.5±0.25) ^{***}
				0.80±0.10	B	R / W	
				0.95±0.10	C	R	
				1.25±0.10	D	R	
				1.15±0.15	J	R	
1210 (3225)	3.20±0.30	2.50±0.20	1.60±0.20	G	R	0.75±0.25	
			0.85±0.10	T	R		
			1.25±0.10	D	R		
			1.60±0.20	G	R		
			2.00±0.20	K	R		
1808 (4520)	4.50±0.40 (4.5±0.5/-0.3) ^{**}	2.03±0.25	2.50±0.30	M	R	0.75±0.25 (0.5±0.25) ^{***}	
			2.50±0.50 ^{#4}	2.50±0.50 ^{#4}			
			1.25±0.10	D	R		
			1.40±0.15	F	R		
1812 (4532)	4.50±0.40 (4.5±0.5/-0.3) ^{**}	3.20±0.30	1.60±0.20	G	R	0.75±0.25 (0.5±0.25) ^{***}	
			2.00±0.20	K	R		
			2.50±0.30	M	R		
			2.80±0.30	U	R		
			1.25±0.10	D	R		
1825 (4563)	4.60±0.50	6.30±0.40	1.60±0.20 (G)	2.00±0.20	R	≧ 0.26	
2211 (5728)	5.70±0.50	2.80±0.30	(K)		R	≧ 0.30	
2220 (5750)	5.70±0.50	5.00±0.40	2.50±0.30 (M)		R	≧ 0.30	
2225 (5763)	5.70±0.50	6.30±0.40	2.80±0.30 (U)		R	≧ 0.30	