



# Surface Mount Chip Capacitors

## Low Profile - 25/50V

**COG/X7R**

Capacitance	Code	0805		1206		1210		0805		1206		1210	
		25V	50V	25V	50V	25V	50V	25V	50V	25V	50V	25V	50V
0.47pF	Op47	0.45	0.45	0.45	0.45	0.45	0.45						
0.56	Op56	0.45	0.45	0.45	0.45	0.45	0.45						
0.68	Op68	0.45	0.45	0.45	0.45	0.45	0.45						
0.82	Op82	0.45	0.45	0.45	0.45	0.45	0.45						
1.0	1p0	0.45	0.45	0.45	0.45	0.45	0.45						
1.2	1p2	0.45	0.45	0.45	0.45	0.45	0.45						
1.5	1p5	0.45	0.45	0.45	0.45	0.45	0.45						
1.8	1p8	0.45	0.45	0.45	0.45	0.45	0.45						
2.2	2p2	0.45	0.45	0.45	0.45	0.45	0.45						
2.7	2p7	0.45	0.45	0.45	0.45	0.45	0.45						
3.3	3p3	0.45	0.45	0.45	0.45	0.45	0.45						
3.9	3p9	0.45	0.45	0.45	0.45	0.45	0.45						
4.7	4p7	0.45	0.45	0.45	0.45	0.45	0.45						
5.6	5p6	0.45	0.45	0.45	0.45	0.45	0.45						
6.8	6p8	0.45	0.45	0.45	0.45	0.45	0.45						
8.2	8p2	0.45	0.45	0.45	0.45	0.45	0.45						
10	100	0.45	0.45	0.45	0.45	0.45	0.45						
12	120	0.45	0.45	0.45	0.45	0.45	0.45						
15	150	0.45	0.45	0.45	0.45	0.45	0.45						
18	180	0.45	0.45	0.45	0.45	0.45	0.45						
22	220	0.45	0.45	0.45	0.45	0.45	0.45						
27	270	0.45	0.45	0.45	0.45	0.45	0.45						
33	330	0.45	0.45	0.45	0.45	0.45	0.45						
39	390	0.45	0.45	0.45	0.45	0.45	0.45						
47	470	0.45	0.45	0.45	0.45	0.45	0.45						
56	560	0.45	0.45	0.45	0.45	0.45	0.45						
68	680	0.45	0.45	0.45	0.45	0.45	0.45						
82	820	0.45	0.45	0.45	0.45	0.45	0.45						
100	101	0.45	0.45	0.45	0.45	0.45	0.45						
120	121	0.45	0.45	0.45	0.45	0.45	0.45						
150	151	0.45	0.45	0.45	0.45	0.45	0.45						
180	181	0.45	0.45	0.45	0.45	0.45	0.45						
220	221	0.45	0.45	0.45	0.45	0.45	0.45						
270	271	0.45	0.45	0.45	0.45	0.45	0.45						
330	331	0.45	0.45	0.45	0.45	0.45	0.45						
390	391	0.45	0.45	0.45	0.45	0.45	0.45						
470	471	0.45	0.50	0.45	0.45	0.45	0.45						
560	561	0.45	0.50	0.45	0.45	0.45	0.45						
680	681	0.45	0.60	0.45	0.45	0.45	0.45						
820	821	0.45	0.65	0.45	0.45	0.45	0.45						
1.0nF	102	0.50		0.45	0.45	0.45	0.45	0.45	0.45				
1.2	122	0.60		0.45	0.45	0.45	0.45	0.45	0.45				
1.5	152	0.65		0.45	0.45	0.45	0.45	0.45	0.45				
1.8	182			0.45	0.45	0.45	0.45	0.45	0.45				
2.2	222			0.50	0.50	0.45	0.50	0.45	0.50				
2.7	272			0.60	0.60	0.45	0.60	0.45	0.60				
3.3	332			0.65	0.65	0.50	0.65	0.45	0.65				
3.9	392					0.60	0.60	0.45	0.60				
4.7	472					0.60	0.60	0.45	0.60				
5.6	562					0.65	0.65	0.45	0.65				
6.8	682							0.45	0.45				
8.2	822							0.45	0.45				
10	103							0.45	0.45				
12	123							0.45	0.45				
15	153							0.45	0.45				
18	183							0.45	0.50				
22	223							0.45	0.60				
27	273							0.45	0.60				
33	333							0.45	0.65				
39	393							0.50	0.45				
47	473							0.60	0.45				
56	563							0.65	0.45				
68	683								0.45				
82	823								0.45				
100	104								0.50				
120	124								0.60				
150	154								0.65				
180	184												
220	224												

**Application**  
 Available in four maximum thicknesses of 0.45mm, 0.50mm, 0.60mm and 0.65mm. The 0.45mm type is ideal for use in smart cards and sensors, where an extremely low thickness is required. The 0.65mm capacitors are designed to be surface mounted beneath a plastic leaded chip carrier. This method minimises circuit inductance and allows higher packaging densities to be achieved. They are ideal for decoupling logic circuits and memories up to 1 megabyte. All types are available with either silver/palladium or nickel barrier terminations.

 25V  50V

**Reeled Quantities**

	178mm (7")	330mm (13")
0805	3000	12000
1206	2500	10000
1210	2000	8000

**Ordering Information**

0805	J	025	0102	J	C	B
<b>Chip Size</b>	<b>Termination</b>	<b>Voltage</b>	<b>Capacitance</b>	<b>Tolerance</b>	<b>Dielectric</b>	<b>Packaging</b>
	J = Nickel Barrier F = Palladium/Silver	025 = 25V 050 = 50V	Expressed in picofarads (pF). First digit is 0. Second and third digits are significant figures of capacitance code. The fourth digit is number of zeros following. eg: 0102=1000pF. For values below 10pF insert a P for the decimal point. eg: 8P20=8.2pF	IEC Code	C = COG X = X7R	B = Bulk T = Taped