

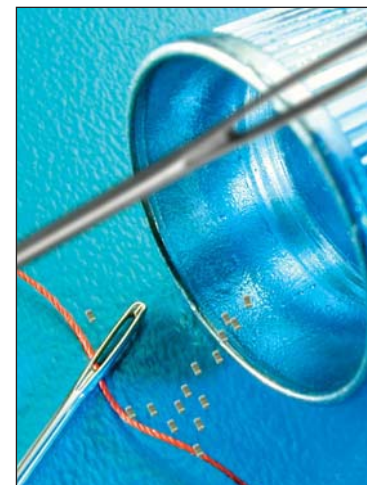
RF/Microwave COG (NP0) Capacitors (RoHS)



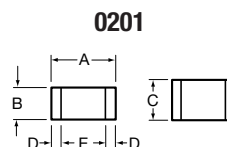
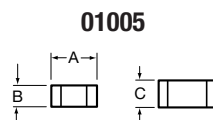
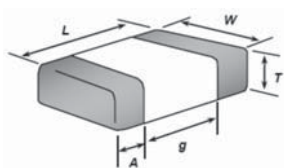
Ultra Low ESR, "CU" Series, COG (NP0) Chip Capacitors

GENERAL INFORMATION

"CU" Series capacitors are COG (NP0) chip capacitors specially designed for "Ultra" low ESR for applications in the communications market. Sizes available are EIA chip sizes 01005 and 0201.



DIMENSIONS:



mm (inches)

Size	L (Length)	W (Width)	T (Max. Thickness)	g (min.)	A (Termination Min./Max.)
0402 (01005)	0.40±0.02 (0.016±0.0008)	0.20±0.02 (0.008±0.0008)	0.22 (0.009)	0.13 (0.005)	0.70/0.14 (0.003/0.006)
0603 (0201)	0.60±0.03 (0.024±0.001)	0.30±0.03 (0.012±0.001)	0.33 (0.013)	0.15 (0.006)	0.10/0.20 (0.004/0.008)

HOW TO ORDER

CU01	3	1	100	J	A	T	2	A
Case Size CU10 = 01005 CU01 = 0201	Voltage Code 3 = 25V Y = 16V	Dielectric 1 = 0±30ppm COG (NP0)	Capacitance EIA Capacitance Code in pF. First two digits = significant figures or "R" for decimal place. Third digit = number of zeros or after "R" significant figures.	Capacitance Tolerance Code B = ±0.1pF C = ±0.25pF D = ±0.5pF G = ±2% J = ±5%	Failure Rate Code A = Not Applicable	Termination T = Plated Ni and Sn	Packaging Code 2 = 7" Reel 4 = 13" Reel U = 7" Reel 4mm TR (01005)	Special A = Standard



ELECTRICAL CHARACTERISTICS

Capacitance Value Range:

Size 01005 0.5 to 22pF
Size 0201 0.5 to 22pF

Temperature Coefficient of Capacitance (TC):

0±30 ppm/°C (-55° to +125°C)

Insulation Resistance (IR):

10¹² Ω min. @ 25°C and rated WVDC
10¹¹ Ω min. @ 125°C and rated WVDC

Working Voltage (WVDC):

Size Working Voltage
01005 - 16 WVDC
0201 - 25 WVDC

RF/Microwave C0G (NP0) Capacitors (RoHS)



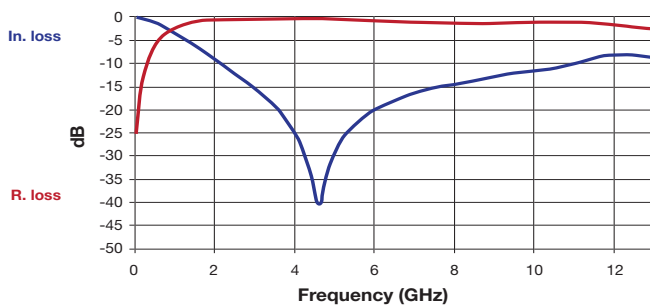
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CAPACITANCE RANGE

Cap (pF)	Available Tolerance	
	01005	0201
0.5	B,C,D	B,C,D
0.75	↓	↓
1.0		
1.2		
1.5		
1.8		
2.2		
2.7		
3.3		
3.9		
4.7		
5.6	C,D	
6.2	C,D	
6.8	D	
8.2	D	
10.0	J,K	J,K
12.0	↓	↓
15.0		
18.0		
22.0	J,K	J,K

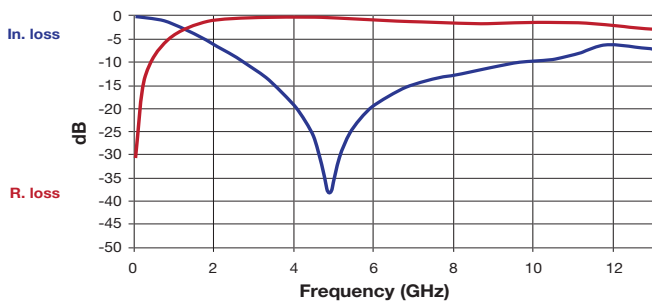
ULTRA LOW ESR, "CU" SERIES

01005 6.2pF



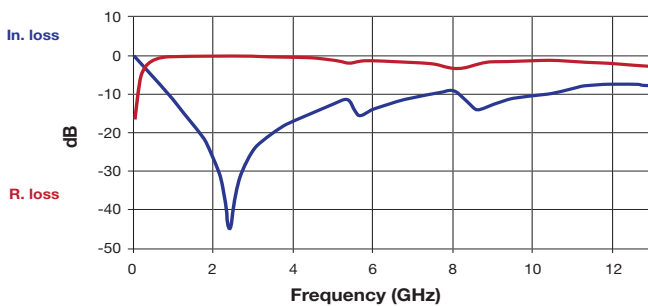
	F (GHz)	IL	R. loss
F1	0.31	-0.40	-9.68
F2	1.28	-5.03	-1.44
F3	2.408	-11.58	-0.27
F4	4.635	-40.55	-0.39
F5	4.897	-31.82	-0.47

0201 4.7pF



	F (GHz)	IL	R. loss
F1	0.31	-0.13	-12.90
F2	1.28	-2.89	-2.84
F3	2.408	-8.09	-0.60
F4	4.635	-29.45	-0.37
F5	4.897	-38.55	-0.45

0201 22pF



	F (GHz)	IL	R. loss
F1	0.31	-2.90	-2.85
F2	1.28	-15.26	-0.10
F3	2.408	-45.65	-0.10
F4	4.635	-14.90	-0.87
F5	4.897	-12.89	-1.08