

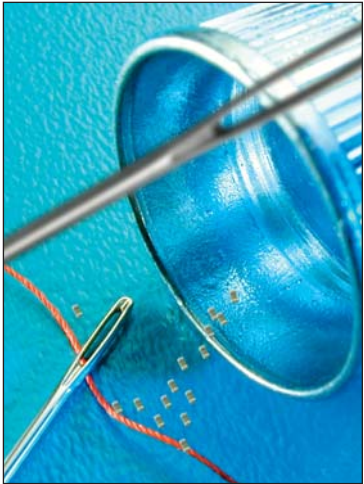
RF/Microwave C0G (NP0) Capacitors (RoHS)



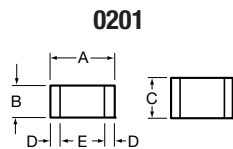
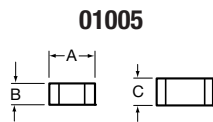
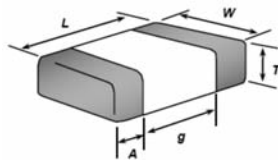
Ultra Low ESR, "CU" Series, C0G (NP0) Chip Capacitors

GENERAL INFORMATION

"CU" Series capacitors are C0G (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
Case Size
CU10 = 01005
CU01 = 0201

3
Voltage Code
3 = 25V
Y = 16V

1
Dielectric
1 = 0±30ppm
C0G (NP0)

100
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.

J
Capacitance Tolerance Code
A = ±0.05pF
B = ±0.1pF
C = ±0.25pF
D = ±0.5pF
G = ±2%
J = ±5%

A
Failure Rate Code
A = Not Applicable

T
Termination
T = Plated Ni and Sn

2
Packaging Code
2 = 7" Reel
4 = 13" Reel
U = 7" Reel 4mm TR (01005)

A
Special
A = Standard

ELECTRICAL CHARACTERISTICS

Capacitance Value Range:

Size 01005 0.2 to 24pF
Size 0201 0.2 to 24pF

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 - 16V, 25V (0.2pF-10pF), 16V (10pF-24pF)
0201 - 25 WVDC

RF/Microwave C0G (NP0) Capacitors (RoHS)

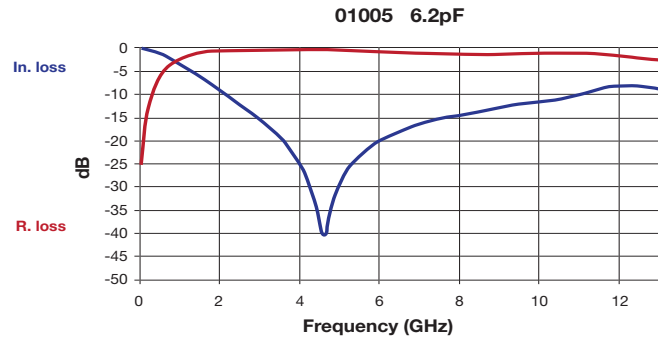


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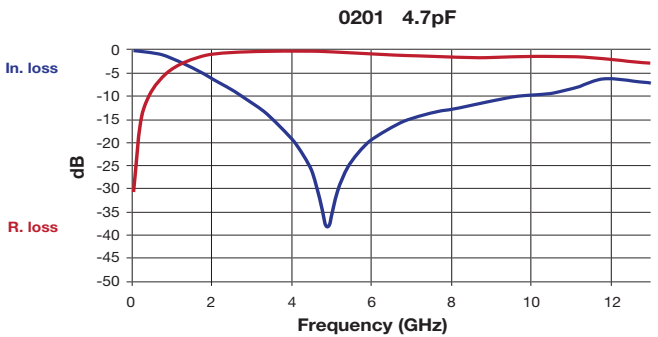
CAPACITANCE RANGE

Cap (pF)	AvailableTolerance	
	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		B,C,D
5.6		C,D
6.2		C,D
6.8		D
8.2		D
10.0	G,J,K	J,K
12.0		
15.0		
18.0		
22.0		
24.0		

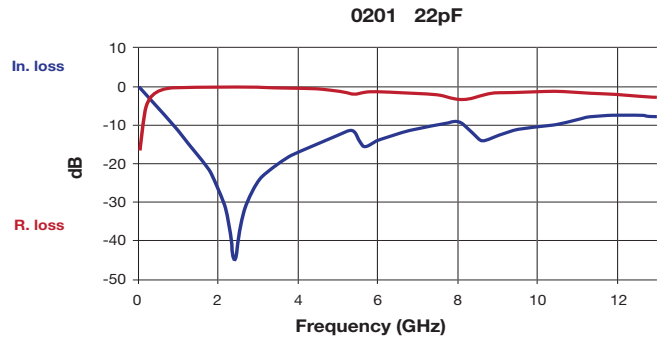
ULTRA LOW ESR, “CU” SERIES



	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



	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



	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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

AVX:

[CU01310R5BAT2A](#) [CU01311R0BAT2A](#) [CU0131120JAT2A\5K](#) [CU0131R75BAT2A\5K](#) [CU10Y14R7BAT2A\5K](#)
[CU10Y10R5BAT2A\5K](#) [CU10Y11R5BAT2A\5K](#) [CU0131150JAT2A](#) [CU0131220JAT2A\5K](#) [CU01313R3BAT2A\5K](#)
[CU01315R6BAT2A\5K](#) [CU01311R5BAT2A\5K](#) [CU01311R8BAT2A\5K](#) [CU10Y15R6BAT2A](#) [CU10Y12R2BAT2A\5K](#)
[CU01314R7BAT2A\5K](#) [CU10Y12R7BAT2A\5K](#) [CU10Y16R2BAT2A\5K](#) [CU0131180JAT2A\5K](#) [CU01316R2BAT2A\5K](#)
[CU10Y11R2BAT2A\5K](#) [CU10Y13R9BAT2A\5K](#) [CU01312R7BAT2A\5K](#) [CU10Y11R8BAT2A](#) [CU01313R9BAT2A\5K](#)
[CU01311R2BAT2A\5K](#) [CU10Y11R0BAT2A\5K](#) [CU10Y13R3BAT2A\5K](#) [CU01312R2BAT2A\5K](#) [CU01318R2BAT2A\5K](#)
[CU0131100JAT2A\5K](#) [CU10Y1220JATUA](#) [CU10Y1100JATUA](#) [CU10Y14R7BATUA](#) [CU10Y12R2BATUA](#)
[CU10Y11R0BATUA](#) [CU01313R9BAT2A](#) [CU01312R7BAT2A](#)