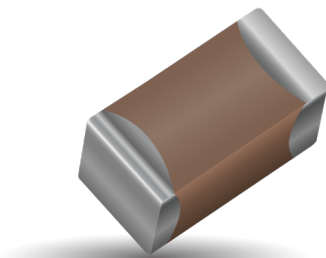


RF/Microwave Capacitors
RF/Microwave C0G (NP0) Capacitors
Ultra Low ESR “CU” Series, C0G (NP0) Capacitors (RoHS)

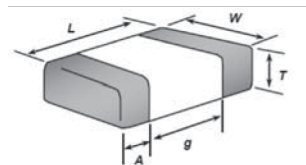


GENERAL INFORMATION

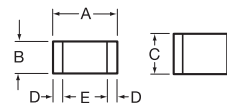
“CU” Series capacitors are C0G (NP0) chip capacitors specially designed for “Ultra” low ESR for applications in the communications market.



DIMENSIONS:



0201



ELECTRICAL CHARACTERISTICS

Capacitance Value Range:

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

0201 - 25 WVDC

0201 - 50 WVDC

mm (inches)					
Size	L (Length)	W (Width)	T (Max. Thickness)	g (min.)	A (Termination Min./Max.)
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
CU01 = 0201

3

Voltage Code
3 = 25V
5 = 50V

1

Dielectric
1 = 0±30ppm
C0G (NP0)

100

Capacitance
EIA Capacitance
Code in pF.

J

Capacitance
Tolerance
Code

A = ±0.05pF
B = ±0.1pF
C = ±0.25pF
D = ±0.5pF
J = ±5%
K = ±10%

A

Failure Rate
Code
A = Not
Applicable

T

Termination
T = Plated Ni
and Sn

2

Packaging Code
2 = 7" Reel
4 = 13" Reel

A

Special
A = Standard

First two digits = significant
figures or “R” for decimal place.
Third digit = number of zeros or
after “R” significant figures.



RF/Microwave Capacitors

RF/Microwave C0G (NP0) Capacitors

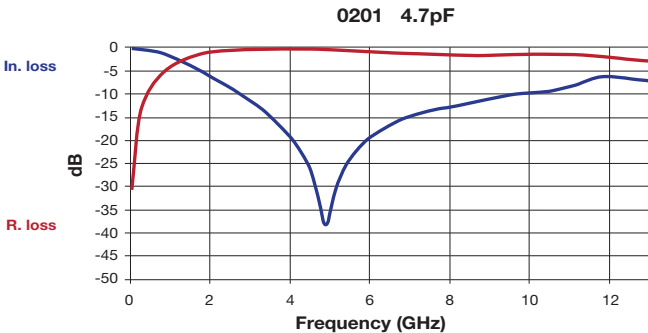
Ultra Low ESR “CU” Series, C0G (NP0) Capacitors (RoHS)



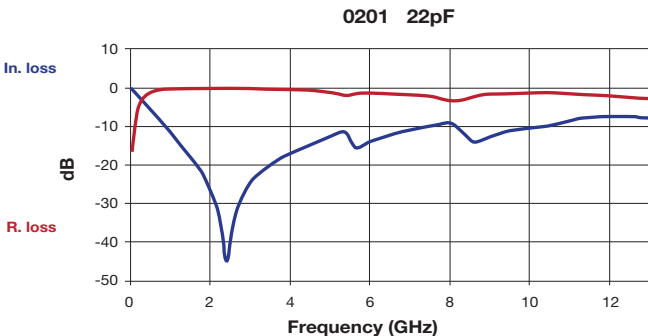
CAPACITANCE RANGE

Cap (pF)	Available Tolerance
0.2	0201 A,B,C,D
0.5	
0.75	
1.0	
1.2	
1.5	B,C,D
1.8	
2.1	
2.2	
2.7	
3.3	B,C,D
3.9	
4.7	B,C,D
5.6	
6.2	C,D
6.8	C,D
8.2	D
10.0	D
12.0	J,K
15.0	
18.0	
22.0	
24.0	

ULTRA LOW ESR, “CU” SERIES0



	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:

KYOCERA 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](#) [CU10Y1100JAT2A](#) [CU10Y15R0CAT2A](#)
[CU10Y1220JAT2A](#) [CU10Y11R5BAT2A](#) [CU10Y11R0BAT2A](#) [CU1031100JAT2A](#) [CU1031120JAT2A](#)
[CU10311R0CAT2A](#) [CU10Y16R0CAT2A](#) [CU10Y17R0CAT2A](#) [CU10Y18R0CAT2A](#) [CU10Y19R0CAT2A](#)
[CU10310R5CAT2A](#) [CU10Y12R0CAT2A](#) [CU10Y13R0BAT2A](#) [CU10Y13R0CAT2A](#) [CU10Y14R0BAT2A](#)
[CU10Y14R0CAT2A](#) [CU10Y15R0BAT2A](#) [CU10Y1120JAT2A](#) [CU10Y1150JAT2A](#) [CU10Y1180JAT2A](#)
[CU10Y11R0CAT2A](#) [CU10Y11R5CAT2A](#) [CU10Y12R0BAT2A](#) [CU10317R0CAT2A](#) [CU10318R0CAT2A](#)
[CU10319R0CAT2A](#) [CU10Y10R2BAT2A](#) [CU10Y10R2CAT2A](#) [CU10Y10R5CAT2A](#) [CU10311R5CAT2A](#)
[CU10312R0CAT2A](#) [CU10313R0CAT2A](#) [CU10314R0CAT2A](#) [CU10315R0CAT2A](#) [CU10316R0CAT2A](#)