

Ultra Low ESR “U” Series

RF/Microwave C0G (NP0) Chip Capacitors



“U” Series capacitors are C0G (NP0) chip capacitors specially designed for “Ultra” low ESR for applications in the communications market. Max ESR and effective capacitance are met on each value producing lot to lot uniformity. Sizes available are EIA chip sizes 0603, 0805, and 1210.



Check for up-to-date CV Tables at

<http://www.avx.com/docs/catalogs/useries.pdf>

HOW TO ORDER

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Case Size 0402 0603 0805 1210	Voltage Code 3 = 25V 5 = 50V 1 = 100V 2 = 200V	Dielectric = Ultra Low ESR	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 = $\pm 0.1\text{pF}$ C = $\pm 0.25\text{pF}$ D = $\pm 0.5\text{pF}$ F = $\pm 1\%$ G = $\pm 2\%$ J = $\pm 5\%$ K = $\pm 10\%$ M = $\pm 20\%$	Failure Rate Code A = Not Applicable	Termination T = Plated Ni and Tin Q = 100% Tin	Packaging Code 2 = 7" Reel 4 = 13" Reel 9 = Bulk	Special Code A = Standard

Cap (pF)	Available Tolerance	Size
		0402 0603 0805 1210
0.2	B,C	50V N/A N/A N/A
0.3	B,C	50V N/A N/A N/A
0.4	B,C	50V N/A N/A N/A
0.5	B,C	50V N/A N/A N/A
0.6	B,C,D	50V N/A N/A N/A
0.7	B,C,D	50V N/A N/A N/A
0.8	B,C,D	50V N/A N/A N/A
0.9	B,C,D	50V N/A N/A N/A

Cap (pF)	Available Tolerance	Size
		0402 0603 0805 1210
1.0	B,C,D	50V 200V 200V 200V
1.1	B,C,D	50V 200V 200V 200V
1.2	B,C,D	50V 200V 200V 200V
1.3	B,C,D	50V 200V 200V 200V
1.4	B,C,D	50V 200V 200V 200V
1.5	B,C,D	50V 200V 200V 200V
1.6	B,C,D	50V 200V 200V 200V
1.7	B,C,D	50V 200V 200V 200V
1.8	B,C,D	50V 200V 200V 200V
1.9	B,C,D	50V 200V 200V 200V
2.0	B,C,D	50V 200V 200V 200V
2.1	B,C,D	50V 200V 200V 200V
2.2	B,C,D	50V 200V 200V 200V
2.4	B,C,D	50V 200V 200V 200V
2.7	B,C,D	50V 200V 200V 200V
3.0	B,C,D	50V 200V 200V 200V
3.3	B,C,D	50V 200V 200V 200V
3.6	B,C,D	50V 200V 200V 200V
3.9	B,C,D	50V 200V 200V 200V
4.3	B,C,D	50V 200V 200V 200V
4.7	B,C,D	50V 200V 200V 200V
5.1	B,C,D	50V 200V 200V 200V
5.6	B,C,D	50V 200V 200V 200V
6.2	B,C,D	50V 200V 200V 200V
6.8	B,C,D	50V 200V 200V 200V

Cap (pF)	Available Tolerance	Size
		0402 0603 0805 1210
7.5	B,C,J,K,M	50V 200V 200V 200V
8.2	B,C,J,K,M	50V 200V 200V 200V
9.1	B,C,J,K,M	50V 200V 200V 200V
10	F,G,J,K,M	50V 200V 200V 200V
11	F,G,J,K,M	50V 200V 200V 200V
12	F,G,J,K,M	50V 200V 200V 200V
13	F,G,J,K,M	50V 200V 200V 200V
15	F,G,J,K,M	50V 200V 200V 200V
18	F,G,J,K,M	50V 200V 200V 200V
20	F,G,J,K,M	50V 200V 200V 200V
22	F,G,J,K,M	50V 200V 200V 200V
24	F,G,J,K,M	50V 200V 200V 200V
27	F,G,J,K,M	50V 200V 200V 200V
30	F,G,J,K,M	50V 200V 200V 200V
33	F,G,J,K,M	50V 200V 200V 200V
36	F,G,J,K,M	50V 200V 200V 200V
39	F,G,J,K,M	50V 200V 200V 200V
43	F,G,J,K,M	50V 200V 200V 200V
47	F,G,J,K,M	50V 200V 200V 200V
51	F,G,J,K,M	50V 200V 200V 200V
56	F,G,J,K,M	50V 200V 200V 200V
68	F,G,J,K,M	50V 200V 200V 200V
75	F,G,J,K,M	50V 200V 200V 200V
82	F,G,J,K,M	50V 200V 200V 200V
91	F,G,J,K,M	50V 200V 200V 200V

Cap (pF)	Available Tolerance	Size
		0402 0603 0805 1210
100	F,G,J,K,M	50V 200V 200V 200V
110	F,G,J,K,M	50V 200V 200V 200V
120	F,G,J,K,M	50V 200V 200V 200V
130	F,G,J,K,M	50V 200V 200V 200V
140	F,G,J,K,M	50V 200V 200V 200V
150	F,G,J,K,M	50V 200V 200V 200V
160	F,G,J,K,M	50V 200V 200V 200V
180	F,G,J,K,M	50V 200V 200V 200V
200	F,G,J,K,M	50V 200V 200V 200V
220	F,G,J,K,M	50V 200V 200V 200V
270	F,G,J,K,M	50V 200V 200V 200V
300	F,G,J,K,M	50V 200V 200V 200V
330	F,G,J,K,M	50V 200V 200V 200V
360	F,G,J,K,M	50V 200V 200V 200V
390	F,G,J,K,M	50V 200V 200V 200V
430	F,G,J,K,M	50V 200V 200V 200V
470	F,G,J,K,M	50V 200V 200V 200V
510	F,G,J,K,M	50V 200V 200V 200V
560	F,G,J,K,M	50V 200V 200V 200V
620	F,G,J,K,M	50V 200V 200V 200V
680	F,G,J,K,M	50V 200V 200V 200V
750	F,G,J,K,M	50V 200V 200V 200V
820	F,G,J,K,M	50V 200V 200V 200V
910	F,G,J,K,M	50V 200V 200V 200V
1000	F,G,J,K,M	50V 200V 200V 200V