

RF/Microwave Capacitors

RF/Microwave C0G (NP0) Capacitors

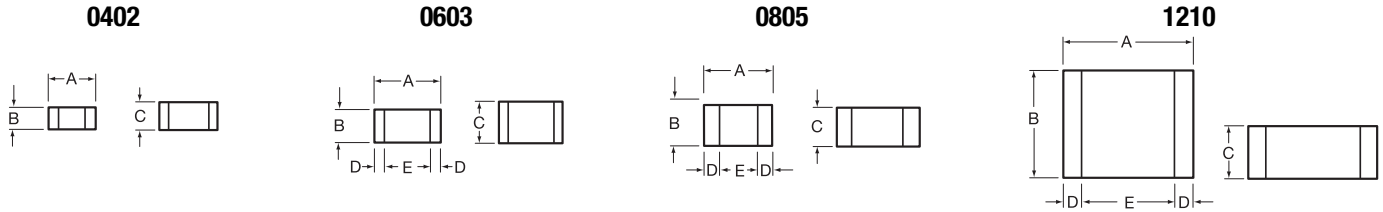
Ultra Low ESR "U" Series, C0G (NP0) Capacitors (RoHS)



GENERAL INFORMATION

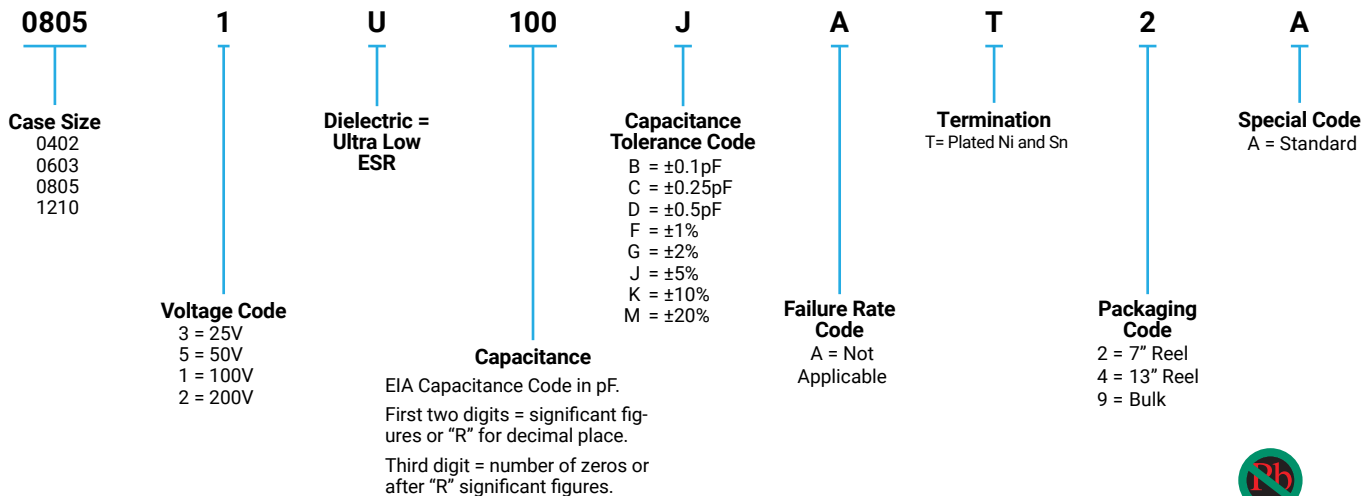
"U" Series capacitors are C0G (NP0) chip capacitors specially designed for "Ultra" low ESR for applications in the communications market. Max ESR and effective capacitance are met on each value producing lot to lot uniformity. Sizes available are EIA chip sizes 0603, 0805, and 1210.

DIMENSIONS: inches (millimeters)



Size	A	B	C	D	E
0402	0.039±0.004 (1.00±0.1)	0.020±0.004 (0.50±0.1)	0.024 (0.6) max	0.010 ± 0.006 (0.25 ± 0.15)	0.014 (0.36) min
0603	0.060±0.010 (1.52±0.25)	0.030±0.010 (0.76±0.25)	0.036 (0.91) max	0.010 ± 0.005 (0.25 ± 0.13)	0.030 (0.76) min
0805	0.079±0.008 (2.01±0.2)	0.049±0.008 (1.25±0.2)	0.045 (1.15mm) max	0.020 ± 0.010 (0.51 ± 0.254)	0.020 (0.51) min
1210	0.126±0.008 (3.2±0.2)	0.098±0.008 (2.49±0.2)	0.055 (1.40mm) max	0.025 ± 0.015 (0.635 ± 0.381)	0.040 (1.02) min

HOW TO ORDER



ELECTRICAL CHARACTERISTICS

Capacitance Values and Tolerances:

- Size 0402 - 0.2 pF to 22 pF @ 1 MHz
- Size 0603 - 1.0 pF to 100 pF @ 1 MHz
- Size 0805 - 1.6 pF to 160 pF @ 1 MHz
- Size 1210 - 2.4 pF to 1000 pF @ 1 MHz

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 |
| 0402 | - 50, 25 WVDC |
| 0603 | - 200, 100, 50 WVDC |
| 0805 | - 200, 100 WVDC |
| 1210 | - 200, 100 WVDC |

Dielectric Working Voltage (DWV):

250% of rated WVDC

Equivalent Series Resistance Typical (ESR):

- 0402 - See Performance Curve, page 300
- 0603 - See Performance Curve, page 300
- 0805 - See Performance Curve, page 300
- 1210 - See Performance Curve, page 300

Marking

Laser marking EIA J marking standard (except 0603) (capacitance code and tolerance upon request).

MILITARY SPECIFICATIONS

Meets or exceeds the requirements of MIL-C-55681



RF/Microwave Capacitors

RF/Microwave C0G (NP0) Capacitors

Ultra Low ESR "U" Series, C0G (NP0) Capacitors (RoHS)



CAPACITANCE RANGE

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		50V	N/A	N/A	N/A
0.5	B,C,D	50V	N/A	N/A	N/A
0.6	↓ B,C,D	50V	N/A	N/A	N/A
0.7		50V	N/A	N/A	N/A
0.8	↓ B,C,D	50V	N/A	N/A	N/A
0.9		50V	N/A	N/A	N/A

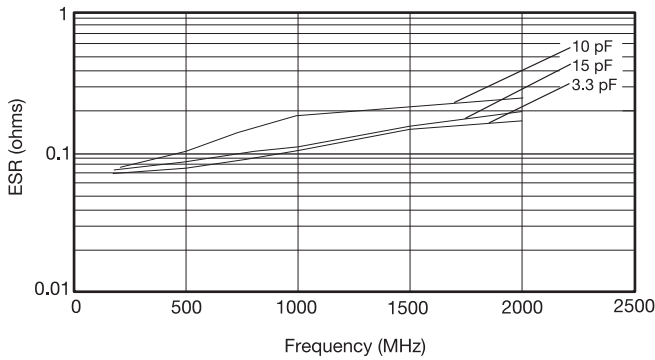
Cap (pF)	Available Tolerance	Size			
		0402	0603	0805	1210
1.0	B,C,D	50V	200V	200V	200V
1.1	↓ B,C,D	50V	200V	200V	200V
1.2		50V	200V	200V	200V
1.3	↓ B,C,D	50V	200V	200V	200V
1.4		50V	200V	200V	200V
1.5	↓ B,C,D	50V	200V	200V	200V
1.6		50V	200V	200V	200V
1.7	↓ B,C,D	50V	200V	200V	200V
1.8		50V	200V	200V	200V
1.9	↓ B,C,D	50V	200V	200V	200V
2.0		50V	200V	200V	200V
2.1	↓ B,C,D	50V	200V	200V	200V
2.2		50V	200V	200V	200V
2.4	↓ B,C,D	50V	200V	200V	200V
2.7		50V	200V	200V	200V
3.0	↓ B,C,D	50V	200V	200V	200V
3.3		50V	200V	200V	200V
3.6	↓ B,C,D	50V	200V	200V	200V
3.9		50V	200V	200V	200V
4.3	↓ B,C,D	50V	200V	200V	200V
4.7		50V	200V	200V	200V
5.1	↓ B,C,D	50V	200V	200V	200V
5.6		50V	200V	200V	200V
6.2	↓ B,C,D	50V	200V	200V	200V
6.8		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		50V	200V	200V	200V
10	↓ F,G,J,K,M	50V	200V	200V	200V
11		50V	200V	200V	200V
12	↓ F,G,J,K,M	50V	200V	200V	200V
13		50V	200V	200V	200V
15	↓ F,G,J,K,M	50V	200V	200V	200V
18		50V	200V	200V	200V
20	↓ F,G,J,K,M	50V	200V	200V	200V
22		50V	200V	200V	200V
24	↓ F,G,J,K,M	50V	200V	200V	200V
27		50V	200V	200V	200V
30	↓ F,G,J,K,M	50V	200V	200V	200V
33		50V	200V	200V	200V
36	↓ F,G,J,K,M	50V	200V	200V	200V
39		50V	200V	200V	200V
43	↓ F,G,J,K,M	50V	200V	200V	200V
47		50V	200V	200V	200V
51	↓ F,G,J,K,M	50V	200V	200V	200V
56		50V	200V	200V	200V
68	↓ F,G,J,K,M	50V	200V	200V	200V
75		50V	200V	200V	200V
82	↓ F,G,J,K,M	50V	200V	200V	200V
91		50V	200V	200V	200V

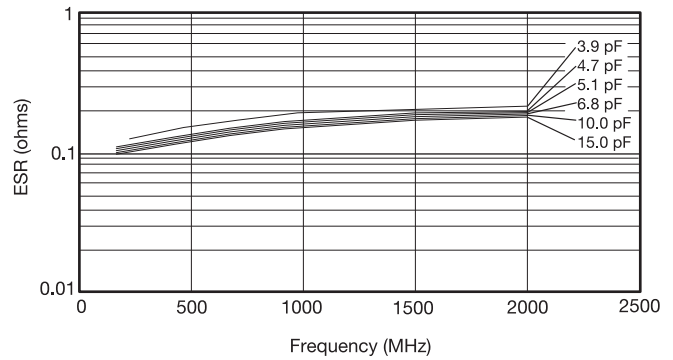
Cap (pF)	Available Tolerance	Size			
		0402	0603	0805	1210
100	F,G,J,K,M	N/A	100V	200V	200V
110	↓ F,G,J,K,M	N/A	50V	200V	200V
120		N/A	50V	200V	200V
130	↓ F,G,J,K,M	N/A	N/A	200V	200V
140		N/A	N/A	100V	200V
150	↓ F,G,J,K,M	N/A	N/A	100V	200V
160		N/A	N/A	100V	200V
180	↓ F,G,J,K,M	N/A	N/A	100V	200V
200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

ULTRA LOW ESR, "U" SERIES

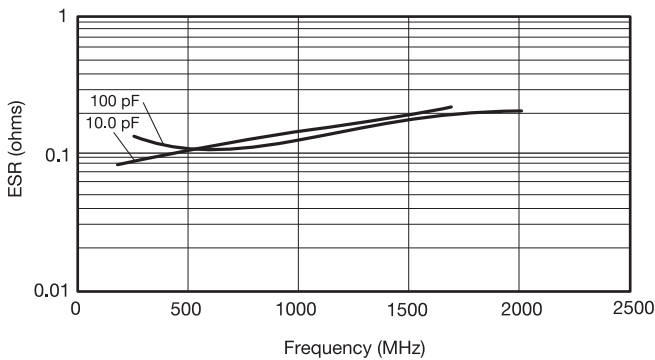
TYPICAL ESR vs. FREQUENCY
0402 "U" SERIES



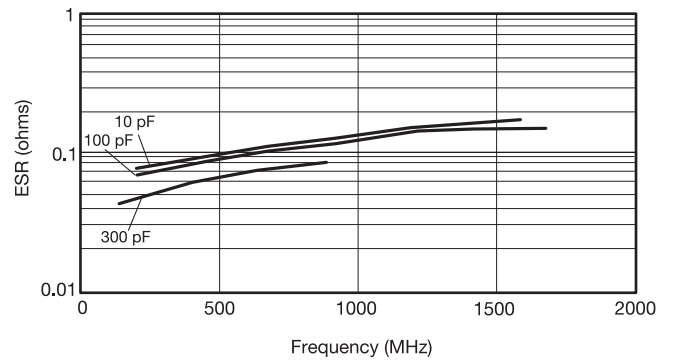
TYPICAL ESR vs. FREQUENCY
0603 "U" SERIES



TYPICAL ESR vs. FREQUENCY
0805 "U" SERIES



TYPICAL ESR vs. FREQUENCY
1210 "U" SERIES



ESR Measured on the Boonton 34A

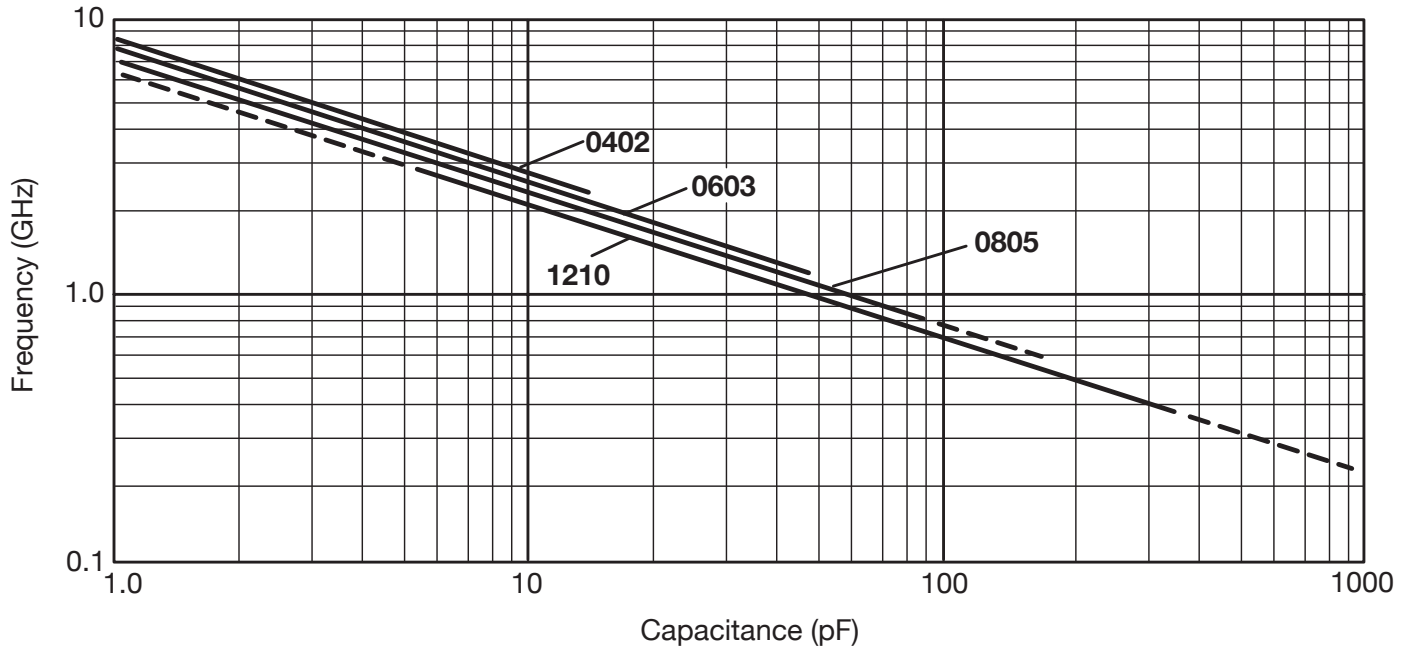
RF/Microwave Capacitors

RF/Microwave C0G (NP0) Capacitors

Ultra Low ESR "U" Series, C0G (NP0) Capacitors (RoHS)



TYPICAL SERIES RESONANT FREQUENCY "U" SERIES CHIP



RF/Microwave Capacitors

RF/Microwave C0G (NP0) Capacitors

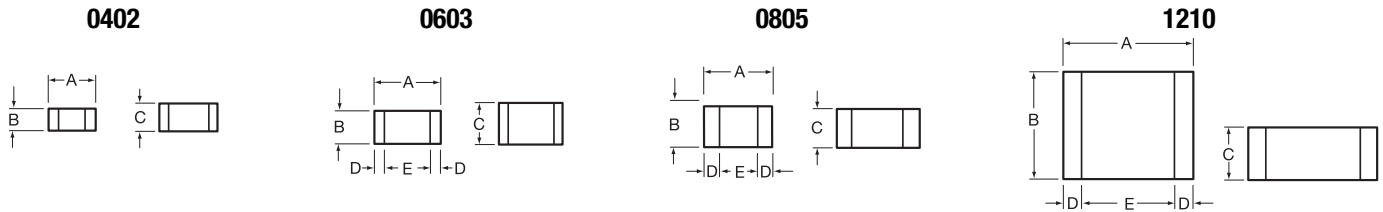
Ultra Low ESR "U" Series, C0G (NP0) Capacitors (Sn/Pb)



GENERAL INFORMATION

"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.

DIMENSIONS: inches (millimeters)



Size	A	B	C	D	E
0402	0.039±0.004 (1.00±0.1)	0.020±0.004 (0.50±0.1)	0.024 (0.6) max	0.010 ± 0.006 (0.25 ± 0.15)	0.014 (0.36) min
0603	0.060±0.010 (1.52±0.25)	0.030±0.010 (0.76±0.25)	0.036 (0.91) max	0.010±0.005 (0.25±0.13)	0.030 (0.76) min
0805	0.079±0.008 (2.01±0.2)	0.049±0.008 (1.25±0.2)	0.045 (1.15mm) max	0.020±0.010 (0.51±0.254)	0.020 (0.51) min
1210	0.126±0.008 (3.2±0.2)	0.098±0.008 (2.49±0.2)	0.055 (1.40mm) max	0.025±0.015 (0.635±0.381)	0.040 (1.02) min

HOW TO ORDER

<p>LD05</p> <p>Case Size LD02 = 0402 LD03 = 0603 LD05 = 0805 LD10 = 1210</p>	<p>1</p> <p>Voltage Code 3 = 25V 5 = 50V 1 = 100V 2 = 200V</p>	<p>U</p> <p>Dielectric = Ultra Low ESR</p>	<p>100</p> <p>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.</p>	<p>J</p> <p>Capacitance Tolerance Code B = ±0.1pF C = ±0.25pF D = ±0.5pF F = ±1% G = ±2% J = ±5% K = ±10% M = ±20%</p>	<p>A</p> <p>Failure Rate Code A = Not Applicable</p>	<p>B</p> <p>Termination B = 5% min lead</p>	<p>2</p> <p>Packaging Code 2 = 7" Reel 4 = 13" Reel 9 = Bulk</p>	<p>A</p> <p>Special Code A = Standard</p>
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Not RoHS Compliant

ELECTRICAL CHARACTERISTICS

Capacitance Values and Tolerances:

Size 0402 - 0.2 pF to 22 pF @ 1 MHz
 Size 0603 - 1.0 pF to 100 pF @ 1 MHz
 Size 0805 - 1.6 pF to 160 pF @ 1 MHz
 Size 1210 - 2.4 pF to 1000 pF @ 1 MHz

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
0402	- 50, 25 WVDC
0603	- 200, 100, 50 WVDC
0805	- 200, 100 WVDC
1210	- 200, 100 WVDC

Dielectric Working Voltage (DWV):

250% of rated WVDC

Equivalent Series Resistance Typical (ESR):

040 - See Performance Curve, page 306
 0603 - See Performance Curve, page 306
 0805 - See Performance Curve, page 306
 1210 - See Performance Curve, page 306

Marking:

Laser marking EIA J marking standard (except 0603) (capacitance code and tolerance upon request).

Military Specifications

Meets or exceeds the requirements of MIL-C-55681



The Important Information/Disclaimer is incorporated in the catalog where these specifications came from or available online at www.avx.com/disclaimer/ by reference and should be reviewed in full before placing any order.

RF/Microwave Capacitors

RF/Microwave C0G (NP0) Capacitors

Ultra Low ESR "U" Series, C0G (NP0) Capacitors (Sn/Pb)



CAPACITANCE RANGE

Cap (pF)	Available Tolerance	Size			
		LD02	LD03	LD05	LD10
0.2	B,C	50V	N/A	N/A	N/A
0.3	↓	↓	↓	↓	↓
0.4	↓	↓	↓	↓	↓
0.5	B,C	↓	↓	↓	↓
0.6	B,C,D	↓	↓	↓	↓
0.7	↓	↓	↓	↓	↓
0.8	↓	↓	↓	↓	↓
0.9	B,C,D	↓	↓	↓	↓

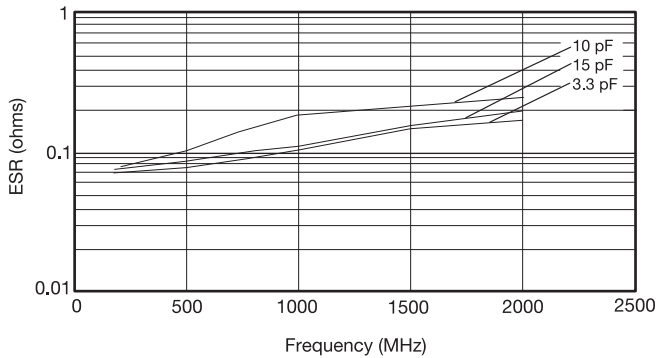
Cap (pF)	Available Tolerance	Size			
		LD02	LD03	LD05	LD10
1.0	B,C,D	50V	200V	200V	200V
1.1	↓	↓	↓	↓	↓
1.2	↓	↓	↓	↓	↓
1.3	↓	↓	↓	↓	↓
1.4	↓	↓	↓	↓	↓
1.5	↓	↓	↓	↓	↓
1.6	↓	↓	↓	↓	↓
1.7	↓	↓	↓	↓	↓
1.8	↓	↓	↓	↓	↓
1.9	↓	↓	↓	↓	↓
2.0	↓	↓	↓	↓	↓
2.1	↓	↓	↓	↓	↓
2.2	↓	↓	↓	↓	↓
2.4	↓	↓	↓	↓	↓
2.7	↓	↓	↓	↓	↓
3.0	↓	↓	↓	↓	↓
3.3	↓	↓	↓	↓	↓
3.6	↓	↓	↓	↓	↓
3.9	↓	↓	↓	↓	↓
4.3	↓	↓	↓	↓	↓
4.7	↓	↓	↓	↓	↓
5.1	↓	↓	↓	↓	↓
5.6	↓	↓	↓	↓	↓
6.2	↓	↓	↓	↓	↓
6.8	B,C,D	↓	↓	↓	↓
	B,C,J,K,M	↓	↓	↓	↓

Cap (pF)	Available Tolerance	Size			
		LD02	LD03	LD05	LD10
7.5	B,C,J,K,M	50V	200V	200V	200V
8.2	↓	↓	↓	↓	↓
9.1	B,C,J,K,M	↓	↓	↓	↓
10	F,G,J,K,M	↓	↓	↓	↓
11	↓	↓	↓	↓	↓
12	↓	↓	↓	↓	↓
13	↓	↓	↓	↓	↓
15	↓	↓	↓	↓	↓
18	↓	↓	↓	↓	↓
20	↓	↓	↓	↓	↓
22	↓	↓	↓	↓	↓
24	↓	↓	↓	↓	↓
27	↓	↓	↓	↓	↓
30	↓	↓	↓	↓	↓
33	↓	↓	↓	↓	↓
36	↓	↓	↓	↓	↓
39	↓	↓	↓	↓	↓
43	↓	↓	↓	↓	↓
47	↓	↓	↓	↓	↓
51	↓	↓	↓	↓	↓
56	↓	↓	↓	↓	↓
68	↓	↓	↓	↓	↓
75	↓	↓	↓	↓	↓
82	↓	↓	↓	↓	↓
91	↓	↓	↓	↓	↓

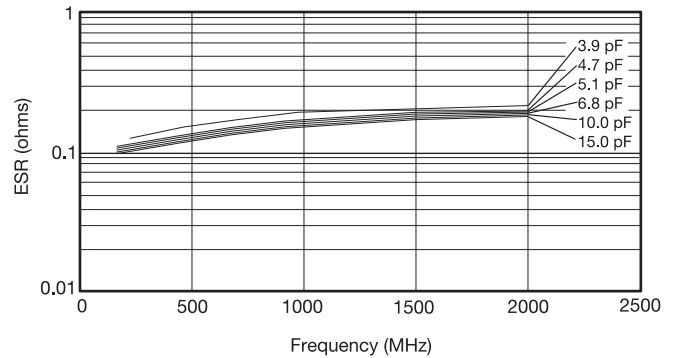
Cap (pF)	Available Tolerance	Size			
		LD02	LD03	LD05	LD10
100	F,G,J,K,M	N/A	100V	200V	200V
110	↓	↓	↓	↓	↓
120	↓	↓	↓	↓	↓
130	↓	↓	↓	↓	↓
140	↓	↓	↓	↓	↓
150	↓	↓	↓	↓	↓
160	↓	↓	↓	↓	↓
180	↓	↓	↓	↓	↓
200	↓	↓	↓	↓	↓
220	↓	↓	↓	↓	↓
270	↓	↓	↓	↓	↓
300	↓	↓	↓	↓	↓
330	↓	↓	↓	↓	↓
360	↓	↓	↓	↓	↓
390	↓	↓	↓	↓	↓
430	↓	↓	↓	↓	↓
470	↓	↓	↓	↓	↓
510	↓	↓	↓	↓	↓
560	↓	↓	↓	↓	↓
620	↓	↓	↓	↓	↓
680	↓	↓	↓	↓	↓
750	↓	↓	↓	↓	↓
820	↓	↓	↓	↓	↓
910	↓	↓	↓	↓	↓
1000	F,G,J,K,M	↓	↓	↓	↓

ULTRA LOW ESR, "U" SERIES

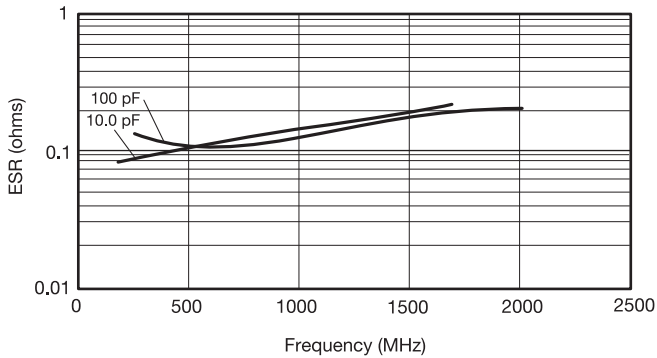
TYPICAL ESR vs. FREQUENCY
0402 "U" SERIES



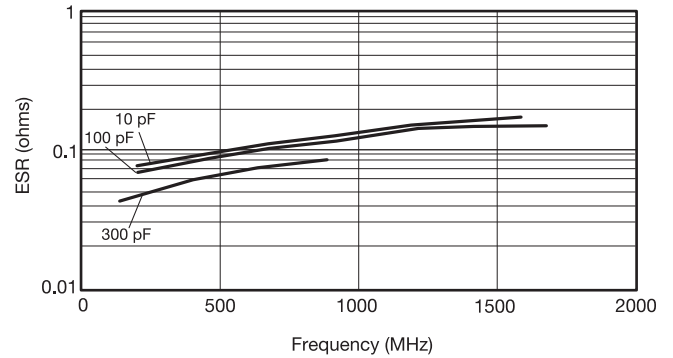
TYPICAL ESR vs. FREQUENCY
0603 "U" SERIES



TYPICAL ESR vs. FREQUENCY
0805 "U" SERIES



TYPICAL ESR vs. FREQUENCY
1210 "U" SERIES



ESR Measured on the Boonton 34A

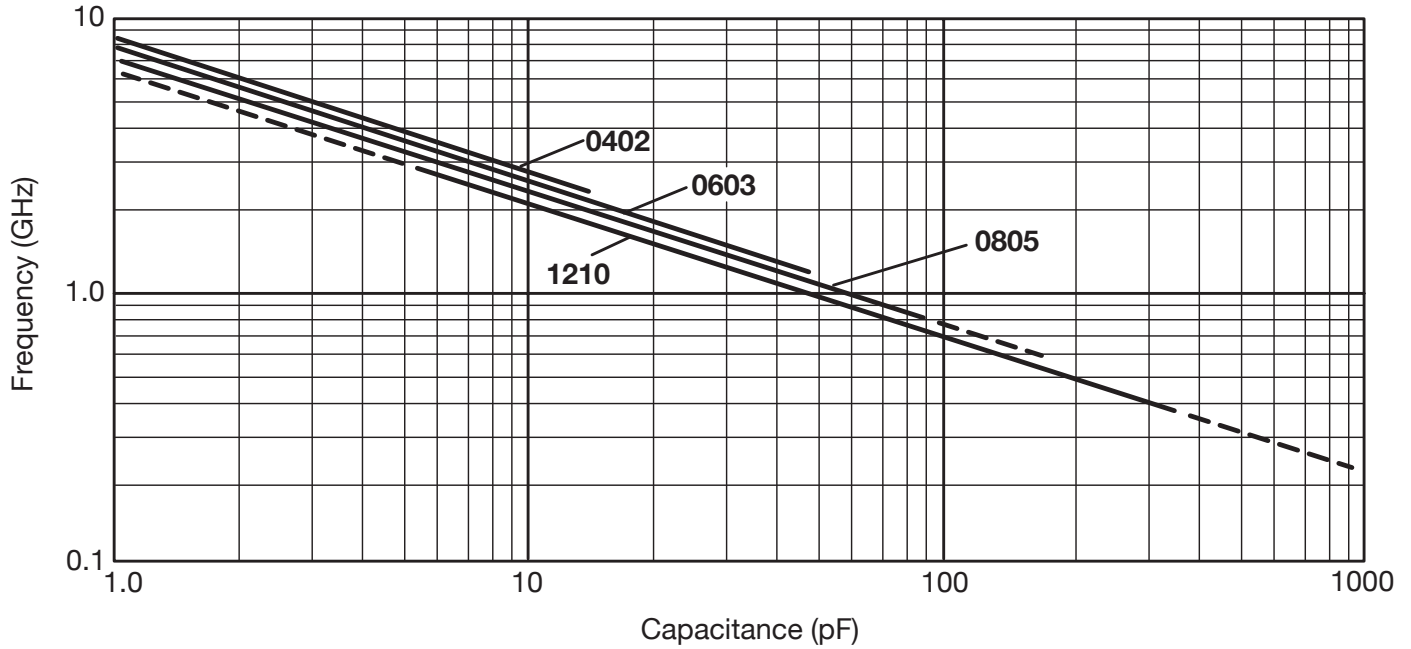
RF/Microwave Capacitors

RF/Microwave C0G (NP0) Capacitors

Ultra Low ESR "U" Series, C0G (NP0) Capacitors (Sn/Pb)



TYPICAL SERIES RESONANT FREQUENCY "U" SERIES CHIP



RF/Microwave Capacitors

RF/Microwave C0G (NP0) Capacitors

Ultra Low ESR "U" Series, C0G (NP0) Capacitors (RoHS)

Automotive, AEC Q200 Qualified



GENERAL INFORMATION

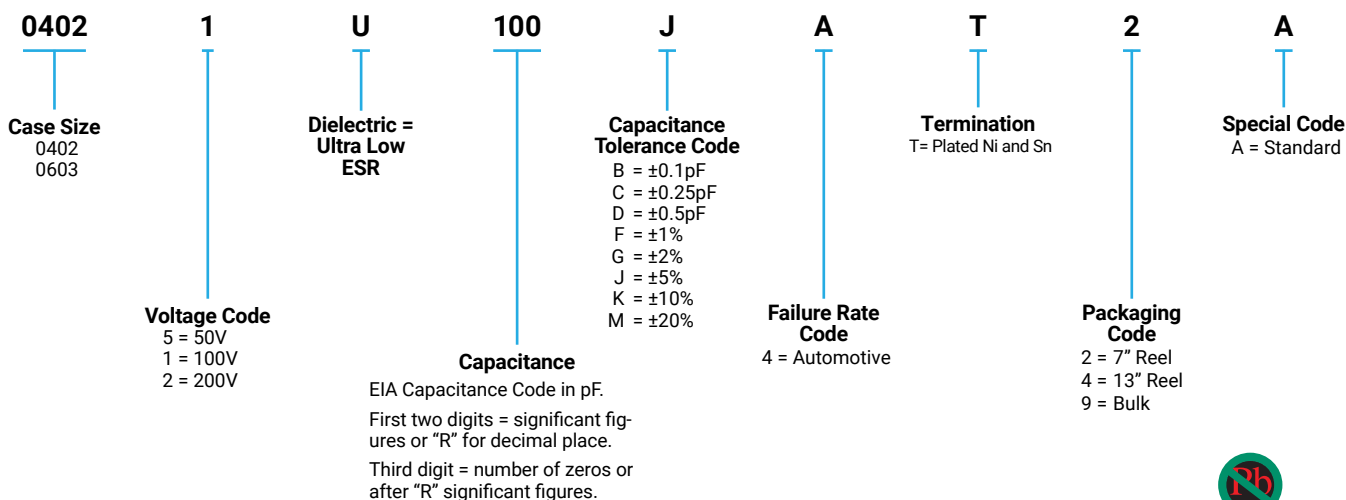
Automotive "U" Series capacitors are C0G (NP0) chip capacitors specially designed for "Ultra" low ESR for applications in the automotive market. Max ESR and effective capacitance are met on each value producing lot to lot uniformity. Sizes available are EIA chip sizes 0402 and 0603.

DIMENSIONS: inches (millimeters)



Size	A	B	C	D	E
0402	0.039±0.004 (1.00±0.1)	0.020±0.004 (0.50±0.1)	0.024 max (0.6)	N/A	N/A
0603	0.060±0.010 (1.52±0.25)	0.030±0.010 (0.76±0.25)	0.036 max (0.91)	0.010±0.005 (0.25±0.13)	0.030 min (0.76)

HOW TO ORDER



ELECTRICAL CHARACTERISTICS

Capacitance Values and Tolerances:

Size 0402 - 0.2 pF to 22 pF @ 1 MHz
 Size 0603 - 1.0 pF to 100 pF @ 1 MHz

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
0402	- 100, 50, 25 WVDC
0603	- 200, 100, 50 WVDC

Dielectric Working Voltage (DWV):

250% of rated WVDC

Equivalent Series Resistance Typical (ESR):

0402 - See Performance Curve, page 303
 0603 - See Performance Curve, page 303

Automotive Specifications

Meets or exceeds the requirements of AEC Q200



LEAD-FREE
LEAD-FREE COMPATIBLE
COMPONENT



RoHS
COMPLIANT

RF/Microwave Capacitors

RF/Microwave C0G (NP0) Capacitors

Ultra Low ESR "U" Series, C0G (NP0) Capacitors (RoHS)

Automotive, AEC Q200 Qualified



CAPACITANCE RANGE

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

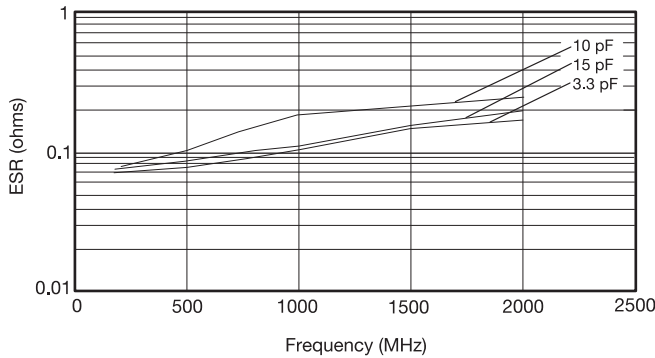
Cap (pF)	Available Tolerance	Size 0402	Size 0603
1.0	B,C,D	50V	200V
1.1			
1.2			
1.3			
1.4			
1.5			
1.6			
1.7			
1.8			
1.9			
2.0			
2.1			
2.2			
2.4			
2.7			
3.0			
3.3			
3.6			
3.9			
4.3			
4.7			
5.1			
5.6			
6.2	B,C,D		
6.8	B,C,J,K,M		

Cap (pF)	Available Tolerance	Size 0402	Size 0603
7.5	B,C,J,K,M	50V	200V
8.2			
9.1	B,C,J,K,M		
10	FG,J,K,M		
11			
12			
13			
15			
18			
20			200V
22			100V
24			
27			
30		50V	
33		N/A	
36			
39			
43			
47			
51			
56			
68			
75			
82			
91			

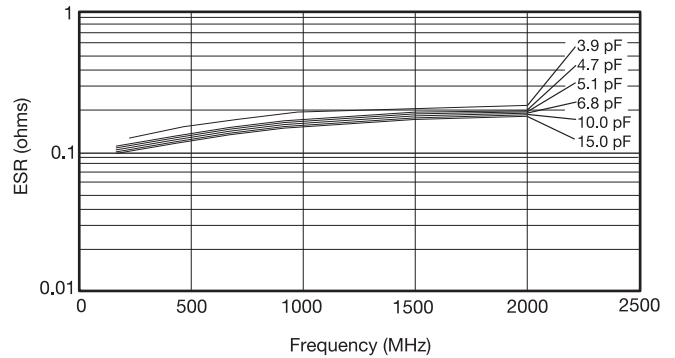
Cap (pF)	Available Tolerance	Size 0402	Size 0603
100	FG,J,K,M	N/A	100V
110			50V
120			50V
130			N/A
140			
150			
160			
180			
200			
220			
270			
300			
330			
360			
390			
430			
470			
510			
560			
620			
680			
750			
820			
910			
1000	FG,J,K,M		

ULTRA LOW ESR, "U" SERIES

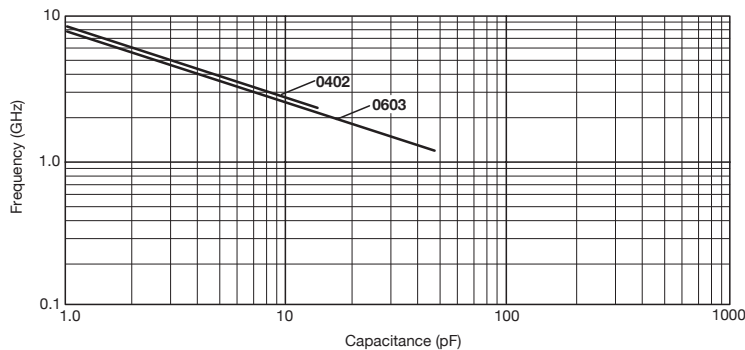
TYPICAL ESR vs. FREQUENCY
0402 "U" SERIES



TYPICAL ESR vs. FREQUENCY
0603 "U" SERIES



TYPICAL
SERIES RESONANT FREQUENCY
"U" SERIES CHIP



0402

Kit 5000 UZ			
Cap. Value PF	Tolerance	Cap. Value pF	Tolerance
0.5	B ($\pm 0.1\text{pF}$)	4.7	B ($\pm 0.1\text{pF}$)
1.0		5.6	
1.5		6.8	
1.8		8.2	
2.2		10.0	J ($\pm 5\%$)
2.4		12.0	
3.0		15.0	
3.6			

***25 each of 15 values

0603

Kit 4000 UZ			
Cap. Value PF	Tolerance	Cap. Value pF	Tolerance
1.0	B ($\pm 0.1\text{pF}$)	6.8	B ($\pm 0.1\text{pF}$)
1.2		7.5	
1.5		8.2	
1.8		10.0	J ($\pm 5\%$)
2.0		12.0	
2.4		15.0	
2.7		18.0	
3.0		22.0	
3.3		27.0	
3.9		33.0	
4.7		39.0	
5.6		47.0	

***25 each of 24 values

0805

Kit 3000 UZ			
Cap. Value PF	Tolerance	Cap. Value pF	Tolerance
1.0	B ($\pm 0.1\text{pF}$)	15.0	J ($\pm 5\%$)
1.5		18.0	
2.2		22.0	
2.4		24.0	
2.7		27.0	
3.0		33.0	
3.3		36.0	
3.9		39.0	
4.7		47.0	
5.6		56.0	
7.5		68.0	
8.2		82.0	
10.0		100.0	
12.0		J ($\pm 5\%$)	

***25 each of 30 values

1210

Kit 3500 UZ			
Cap. Value PF	Tolerance	Cap. Value pF	Tolerance
2.2	B ($\pm 0.1\text{pF}$)	36.0	J ($\pm 5\%$)
2.7		39.0	
4.7		47.0	
5.1		51.0	
6.8		56.0	
8.2		68.0	
9.1		82.0	
10.0		100.0	
13.0		120.0	
15.0	130.0		
18.0	240.0		
20.0	J ($\pm 5\%$)	300.0	
24.0	390.0		
27.0	470.0		
30.0	680.0		

***25 each of 30 values

Mouser Electronics

Authorized Distributor

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[06032U6R8BAT2A](#) [06032U8R2BAT2A](#) [06032U8R2CAT2A](#) [06035U200GAT2A](#) [06035U3R3BAT2A](#)
[08051U100CAT2A](#) [08051U100JAT2A](#) [08051U1R0BAT2A](#) [08051U1R0BATME](#) [08051U1R2BAT2A](#)
[08051U1R5CAT2A](#) [08051U270JAT2A](#) [08051U2R4BAT2A](#) [08051U3R0BAT2A](#) [08051U470GAT2A](#) [08051U910FAT2A](#)
[08052U150GAT2A](#) [04023U200JAT2A](#) [06031U470FAT2A](#) [06031U220FAT2A](#) [08052U270GAT2A](#)
[08052U4R7BAT2A](#) [08051U1R2CAT2A](#) [04023U4R7BAT2A](#) [08052U150JAT2A](#) [08051U1R8CAT2A](#)
[08052U680GAT2A](#) [06032U1R5BAT2A](#) [06035U390JAT2A](#) [08051U100FAT2A](#) [08051U101JAT2A](#) [08051U101FAT2A](#)
[08051U101GAT2A](#) [08051U101KAT2A](#) [08052U510GAT2A](#) [08051U151KAT2A](#) [04025U1R8BAT2A](#) [08051U150JAT2A](#)
[08052U820GAT2A](#) [04023U5R6BAT2A](#) [06032U3R3CAT2A](#) [08051U2R7BAT2A](#) [08052U180GAT2A](#)
[06035U100FAT2A](#) [06035U2R0BAT2A](#) [06032U4R7CAT2A](#) [06035U100JAT2A](#) [08051U151GAT2A](#) [08055U130GAT2A](#)
[06031U3R6DAT9A](#) [08051U620FAT2A](#) [08051U150FAT2A](#) [08051U120FAT2A](#) [08051U820FAT2A](#) [12102U560JAT2A](#)
[08051U470FAT2A](#) [08051U510FAT2A](#) [08051U9R1BAT2A](#) [04023U2R0BAT2A](#) [06035U820JAT2A](#)
[04025U3R9BAT2A](#) [08052U390GAT2A](#) [08051U151FAT2A](#) [06031U360GAT9A](#) [06031U300GAT9A](#) [06031U270GAT9A](#)
[06031U220GAT9A](#) [06031U470GAT9A](#) [08052U750GAT2A](#) [04023U0R3BAT2A](#) [04023U0R4BAT2A](#)
[04023U0R7BAT2A](#) [04023U100FAT2A](#) [04023U110FAT2A](#) [04023U1R1BAT2A](#) [04023U1R1CAT2A](#) [04023U1R3BAT2A](#)
[04023U1R3CAT2A](#) [04023U1R4BAT2A](#) [04023U1R7BAT2A](#) [04023U1R8CAT2A](#) [04023U1R9BAT2A](#)
[04023U2R1BAT2A](#) [04023U2R4BAT2A](#) [04023U3R6CAT2A](#) [04025U0R6BAT2A](#) [04025U0R8BAT2A](#)
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[04025U150JAT2A](#) [04025U180GAT2A](#)