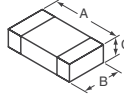




U Series Capacitors

"U" Series Capacitors are COG (NPO) 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. **Specifications:** • Insulation Resistance: $10^{12} \Omega$ minimum @ 25°C • Operating Temperature: -55°C - 125°C



Size Code	Dimensions - Inch (mm)		
	A	B	C
0402	0.039 (1.00)	0.020 (0.50)	0.024 (0.6)
0603	0.060 (1.52)	0.030 (0.76)	0.036 (0.91)
0805	0.079 (2.01)	0.049 (1.25)	0.040 (1.02)



Size Code	Type	WV DC	Capacitance	Capacitance Tolerance	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		AVX Part No.
						10	100	500		Qty.	Pricing	
0402	COG (NPO)	50V	0.8pF	±0.1pF	478-5716-1-ND NEW!	1.39	8.25	23.78	478-5716-2-ND NEW!	10,000	22.45/M	04025U0R8BAT2A
	COG (NPO)	50V	1.0pF	±0.1pF	478-3832-1-ND	2.04	12.04	34.72	478-3832-2-ND	10,000	33.67/M	04025U1R0BAT2A
	COG (NPO)	50V	1.5pF	±0.1pF	478-5992-1-ND NEW!	1.39	8.25	23.78	478-5992-2-ND NEW!	10,000	22.45/M	04025U1R5BAT2A
	COG (NPO)	50V	2.0pF	±0.1pF	478-3833-1-ND	2.04	12.04	34.72	478-3833-2-ND	10,000	33.67/M	04025U2R0BAT2A
	COG (NPO)	50V	3.3pF	±0.1pF	478-5993-1-ND NEW!	1.39	8.25	23.78	478-5993-2-ND NEW!	10,000	22.45/M	04025U3R3BAT2A
	COG (NPO)	50V	10pF	±0.25pF	478-5991-1-ND NEW!	1.14	6.79	19.57	478-5991-2-ND NEW!	10,000	19.08/M	04025U100CAT2A
0603	COG (NPO)	50V	10pF	±1%	478-5717-1-ND NEW!	4.70	27.80	80.17	478-5717-2-ND NEW!	10,000	77.43/M	04025U100FAT2A
	COG (NPO)	50V	10pF	±5%	478-3831-1-ND	1.39	8.25	23.78	478-3831-2-ND	10,000	22.45/M	04025U100JAT2A
	COG (NPO)	200V	1.0pF	±0.25pF	478-3836-1-ND	24.07	142.23	410.30	478-3836-2-ND	4,000	393.88/M	06032U1R0CAT2A
	COG (NPO)	200V	1.6pF	±0.1pF	478-3837-1-ND	4.32	25.53	73.65	478-3837-2-ND	4,000	70.70/M	06032U1R6BAT2A
	COG (NPO)	200V	2.0pF	±0.1pF	478-3838-1-ND	4.32	25.53	73.65	478-3838-2-ND	4,000	70.70/M	06032U2R0BAT2A
	COG (NPO)	200V	2.2pF	±0.25pF	478-3839-1-ND	24.07	142.23	410.30	478-3839-2-ND	4,000	393.88/M	06032U2R2CAT2A
0805	COG (NPO)	200V	2.7pF	±0.1pF	478-3840-1-ND	4.32	25.53	73.65	478-3840-2-ND	4,000	70.70/M	06032U2R7BAT2A
	COG (NPO)	200V	7.5pF	±0.25pF	478-3841-1-ND	3.46	20.42	58.91	—	—	—	06032U7R5CAT2A
	COG (NPO)	200V	8.2pF	±0.25pF	478-3842-1-ND	24.07	142.23	410.30	478-3842-2-ND	4,000	393.88/M	06032U8R2CAT2A
	COG (NPO)	200V	10pF	±5%	478-3835-1-ND	21.35	126.19	364.01	478-3835-2-ND	4,000	349.00/M	06032U100JAT2A
	COG (NPO)	100V	27pF	±5%	478-3834-1-ND	21.35	126.19	364.01	478-3834-2-ND	4,000	349.00/M	06031U27J0JAT2A
	COG (NPO)	200V	1.0pF	±0.25pF	478-3843-1-ND	26.54	156.82	452.38	478-3843-2-ND	2,000	434.28/M	08052U1R0CAT2A
	COG (NPO)	200V	3.3pF	±0.5pF	478-3846-1-ND	4.69	27.72	79.95	478-3846-2-ND	2,000	76.31/M	08052U3R3CAT2A
	COG (NPO)	200V	3.9pF	±0.25pF	478-3847-1-ND	5.93	35.01	100.99	478-3847-2-ND	2,000	96.51/M	08052U3R9CAT2A
	COG (NPO)	200V	4.7pF	±0.25pF	478-3849-1-ND	5.93	35.01	100.99	478-3849-2-ND	2,000	96.51/M	08052U4R7CAT2A
	COG (NPO)	200V	6.8pF	±0.25pF	478-3850-1-ND	26.54	156.82	452.38	478-3850-2-ND	2,000	434.28/M	08052U6R8CAT2A
	COG (NPO)	200V	27pF	±5%	478-3844-1-ND	4.32	25.53	73.65	478-3844-2-ND	2,000	70.70/M	08052U27J0JAT2A
	COG (NPO)	200V	47pF	±2%	478-3848-1-ND	26.54	156.82	452.38	478-3848-2-ND	2,000	434.28/M	08052U47G0AT2A
COG (NPO)	200V	47pF	±1%	478-3830-1-ND	9.88	58.35	168.32	478-3830-2-ND	2,000	161.59/M	08052U47F0FAT2A	

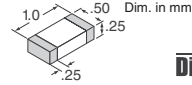
Designer Kits

478-5615-ND	0402 High Frequency Ceramic Capacitor Kit — 375 pieces — 25 each of 0.5pF — 15.0pF	\$134.32
478-5616-ND	0603 High Frequency Ceramic Capacitor Kit — 600 pieces — 25 each of 1.0pF — 47.0pF	\$134.32
478-5617-ND	0805 High Frequency Ceramic Capacitor Kit — 750 pieces — 25 each of 1.0pF — 160pF	\$134.32



UltraThin Ceramic Capacitor

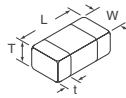
The UltraThin (UT) series of ceramic capacitors was designed to meet the stringent thickness requirements of our customers. AVX developed a new termination process (FCT - Fine Copper Termination) that provides unbeatable flatness and repeatability. The series includes products < 0.35mm in height and is targeted for applications such as Smart cards, memory modules, High Density SIM cards, mobile phones, MP3 players, and embedded solutions.



Size Code	Type	WV DC (V)	Capacitance	Tolerance (%)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing 15,000	AVX Part No.
						1	10	100			
0402	X5R	25	10,000pF	±20	478-5534-1-ND	1.35	1.22	1.01	478-5534-2-ND	484.78/M	UT023D103MAT2C

LT Series Low Profile Multilayer Chip Capacitors

AVX introduces the LT series that is comprised of a range of low profile products in the X5R dielectric. X5R is a Class II dielectric with temperature variation of capacitance within ±15% from -55°C - 85°C. Series includes 0402, 0603, 0805 and 1206 packages in compact, low-profile designs. The LT Series is ideal for decoupling and filtering applications where height clearance is limited.



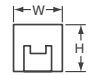
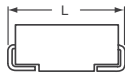
Size Code	Dimensions — mm			
	L	W	T (max.)	t
0402	1.00	.50	.56	.25
0603	1.60	.81	.56	.35
0805	2.01	1.25	.95	.50
1206	3.20	1.60	1.02	.50



Size Code	WV DC (V)	Capacitance	Tolerance	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		AVX Part No.	
					10	100	1,000		Qty.	Pricing		
0402	4	1.0pF	±20%	478-4069-1-ND	6.42	37.93	109.41	151.72	478-4069-2-ND	10,000	105.49/M	LT024D105MAT2C
	4	2.2pF	±20%	478-5075-1-ND	9.88	58.35	168.32	233.41	—	—	—	LT024D225MAT2S
0603	4	4.7pF	±20%	478-4070-1-ND	17.90	105.76	305.09	423.05	478-4070-2-ND	4,000	292.89/M	LT034D475MAT2S
	6.3	2.2pF	±20%	478-4071-1-ND	10.86	64.19	185.16	256.75	—	—	—	LT036D225MAT2S
0805	16	1.0pF	±10%	478-4072-1-ND	17.90	105.76	305.09	423.05	478-4072-2-ND	4,000	292.89/M	LT03YD105KAT2S
	6.3	10pF	±20%	478-4073-1-ND	22.34	132.02	380.84	528.09	478-4073-2-ND	4,000	365.83/M	LT056D106MAT2X
1206	16	4.7pF	±20%	478-4076-1-ND	11.85	70.02	201.99	280.09	478-4076-2-ND	4,000	194.14/M	LT05YD475MAT2X
	25	1.0pF	±20%	478-5078-1-ND	37.65	222.47	641.74	889.87	478-5078-2-ND	4,000	616.07/M	LT053D105MAT2X
1206	16	10pF	±20%	478-4077-1-ND	24.07	142.23	410.30	568.94	478-4077-2-ND	4,000	393.88/M	LT06YD106MAT2W
	25	4.7pF	±20%	478-5079-1-ND	18.81	111.16	320.66	444.64	—	—	—	LT063D475MAT2X

MH Series Ceramic Capacitors – Molded SM Leadframe

The MH Series capacitor is a SMT molded part with a multilayer ceramic insert. MH capacitors combine the ceramic attributes of very low ESR, non-polar construction, excellent high frequency behavior, excellent voltage stress capabilities and wide temperature range with the enhanced mechanical protection of a molded case. The MH range provides a lead-free solution to customers who have previously been unable to use large case ceramic capacitors because of mechanical stress concerns.



EIA Code	Case Dimensions — mm		
	L	W	H
7361-38	7.30	6.10	3.45



Type	WV DC	Capacitance	Tolerance	Digi-Key Part No.	Cut Tape Price Each 100		Digi-Key Part No.	Tape and Reel Pricing 400	AVX Part No.
X7R	100V	1.0pF	±20%	478-5426-1-ND	32.72	19.33	478-5426-2-ND	2141.08	MHV11C105MAT2A
	100V	1.5pF	±20%	478-5427-1-ND	34.07	20.14	478-5427-2-ND	2229.96	MHV11C155MAT2A
	100V	2.2pF	±20%	478-5421-1-ND	36.17	21.38	478-5421-2-ND	2367.31	MHV11C225MAT2A
	50V	4.7pF	±20%	478-5425-1-ND	37.28	22.03	478-5425-2-ND	2440.02	MHV15C475MAT2A
	50V	10pF	±20%	478-5422-1-ND	38.02	22.47	478-5422-2-ND	2488.50	MHV15C106MAT2A
	25V	10pF	±20%	478-5424-1-ND	38.02	22.47	478-5424-2-ND	2488.50	MHV13C106MAT2A
	25V	22pF	±20%	478-5423-1-ND	38.27	22.62	478-5423-2-ND	2504.66	MHV13C226MAT2A

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

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