

Case Size	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Kemet Part No.		
							10	100	500		Qty.	Pricing			
1825	X7R	50	.47µF	±10%	1.1	399-3457-1-ND	54.45	321.75	928.13	399-3457-2-ND	1,000	891.00	C1825C474K5RACTU		
		50	1µF	±10%	1.1	399-3456-1-ND	60.50	357.50	1031.25	399-3456-2-ND	1,000	990.00	C1825C105K5RACTU		
2220	COG (NP0)	2500	620pF	±5%	1.7	399-4857-1-ND	167.20	988.00	2850.00	399-4857-2-ND	1,000	2736.00	C2220C621JZGACTU		
		2500	680pF	±5%	1.7	399-4858-1-ND	167.20	988.00	2850.00	399-4858-2-ND	1,000	2736.00	C2220C681JZGACTU		
		2500	750pF	±5%	1.7	399-4859-1-ND	168.30	994.50	2868.75	399-4859-2-ND	1,000	2754.00	C2220C751JZGACTU		
		2500	820pF	±5%	1.7	399-4860-1-ND	168.30	994.50	2868.75	399-4860-2-ND	1,000	2754.00	C2220C821JZGACTU		
		2500	910pF	±5%	1.7	399-4862-1-ND	168.30	994.50	2868.75	399-4862-2-ND	1,000	2754.00	C2220C911JZGACTU		
		2500	1000pF	±5%	1.7	399-4855-1-ND	168.30	994.50	2868.75	399-4855-2-ND	1,000	2754.00	C2220C102JZGACTU		
		100	22000pF	±5%	1.0	399-5386-1-ND NEW!	116.38	687.70	1983.75	399-5386-2-ND NEW!	1,000	1904.00	C2220C223J1GACTU		
		100	27000pF	±5%	1.0	399-5387-1-ND NEW!	116.38	687.70	1983.75	399-5387-2-ND NEW!	1,000	1904.00	C2220C273J1GACTU		
		100	33000pF	±5%	1.0	399-5388-1-ND NEW!	116.38	687.70	1983.75	399-5388-2-ND NEW!	1,000	1904.00	C2220C333J1GACTU		
		100	47000pF	±5%	1.0	399-5389-1-ND NEW!	101.20	598.00	1725.00	399-5389-2-ND NEW!	1,000	1656.00	C2220C473J1GACTU		
		100	56000pF	±5%	1.0	399-5390-1-ND NEW!	129.14	763.10	2201.25	399-5390-2-ND NEW!	1,000	2113.00	C2220C563J1GACTU		
		100	68000pF	±5%	1.0	399-5391-1-ND NEW!	129.14	763.10	2201.25	399-5391-2-ND NEW!	1,000	2113.00	C2220C683J1GACTU		
		100	82000pF	±5%	1.0	399-5392-1-ND NEW!	129.14	763.10	2201.25	399-5392-2-ND NEW!	1,000	2113.00	C2220C823J1GACTU		
		100	1µF	±5%	1.0	399-5393-1-ND NEW!	112.09	662.35	1910.63	399-5393-2-ND NEW!	1,000	1834.00	C2220C104J1GACTU		
		100	1.2µF	±5%	1.0	399-5394-1-ND NEW!	134.64	795.60	2295.00	399-5394-2-ND NEW!	1,000	2203.00	C2220C124J1GACTU		
		100	1.5µF	±5%	1.0	399-5395-1-ND NEW!	134.64	795.60	2295.00	399-5395-2-ND NEW!	1,000	2203.00	C2220C154J1GACTU		
		100	2.2µF	±5%	1.0	399-5396-1-ND NEW!	126.50	747.50	2156.25	399-5396-2-ND NEW!	1,000	2070.00	C2220C224J1GACTU		
		100	2.7µF	±5%	1.0	399-5397-1-ND NEW!	154.88	915.20	2640.00	399-5397-2-ND NEW!	1,000	2534.00	C2220C274J1GACTU		
		100	3.3µF	±5%	1.3	399-5398-1-ND NEW!	154.88	915.20	2640.00	399-5398-2-ND NEW!	1,000	2534.00	C2220C334J1GACTU		
		50	33000pF	±5%	1.0	399-5374-1-ND NEW!	98.01	579.15	1670.63	399-5374-2-ND NEW!	1,000	1604.00	C2220C333J5GACTU		
		50	47000pF	±5%	1.0	399-5375-1-ND NEW!	89.43	528.45	1524.38	399-5375-2-ND NEW!	1,000	1463.00	C2220C473J5GACTU		
		50	56000pF	±5%	1.0	399-5376-1-ND NEW!	114.07	674.05	1944.38	399-5376-2-ND NEW!	1,000	1867.00	C2220C563J5GACTU		
		50	68000pF	±5%	1.0	399-5377-1-ND NEW!	114.07	674.05	1944.38	399-5377-2-ND NEW!	1,000	1867.00	C2220C683J5GACTU		
		50	82000pF	±5%	1.0	399-5378-1-ND NEW!	114.07	674.05	1944.38	399-5378-2-ND NEW!	1,000	1867.00	C2220C823J5GACTU		
		50	1µF	±5%	1.0	399-5379-1-ND NEW!	99.33	586.95	1693.13	399-5379-2-ND NEW!	1,000	1625.00	C2220C104J5GACTU		
		50	1.2µF	±5%	1.0	399-5380-1-ND NEW!	114.40	676.00	1950.00	399-5380-2-ND NEW!	1,000	1872.00	C2220C124J5GACTU		
		50	1.5µF	±5%	1.0	399-5381-1-ND NEW!	114.40	676.00	1950.00	399-5381-2-ND NEW!	1,000	1872.00	C2220C154J5GACTU		
		50	2.2µF	±5%	1.0	399-5382-1-ND NEW!	107.58	635.70	1833.75	399-5382-2-ND NEW!	1,000	1760.00	C2220C224J5GACTU		
		50	2.7µF	±5%	1.0	399-5383-1-ND NEW!	137.28	811.20	2340.00	399-5383-2-ND NEW!	1,000	2246.00	C2220C274J5GACTU		
		50	3.3µF	±5%	1.3	399-5384-1-ND NEW!	137.28	811.20	2340.00	399-5384-2-ND NEW!	1,000	2246.00	C2220C334J5GACTU		
		50	4.7µF	±5%	1.7	399-5385-1-ND NEW!	119.35	705.25	2034.38	399-5385-2-ND NEW!	1,000	1953.00	C2220C474J5GACTU		
		X7R	2000	8200pF	±10%	1.7	399-4861-1-ND	127.60	754.00	2175.00	399-4861-2-ND	1,000	2088.00	C2220C822KGRACTU	
			1000	47000pF	±10%	1.7	399-4856-1-ND	115.50	682.50	1968.75	399-4856-2-ND	1,000	1890.00	C2220C473KDRACTU	
		2225	COG (NP0)	2500	750pF	±5%	1.7	399-4869-1-ND	220.00	1300.00	3750.00	399-4869-2-ND	1,000	3600.00	C2225C751JZGACTU
				2500	820pF	±5%	1.7	399-4870-1-ND	220.00	1300.00	3750.00	399-4870-2-ND	1,000	3600.00	C2225C821JZGACTU
				2500	910pF	±5%	1.7	399-4871-1-ND	220.00	1300.00	3750.00	399-4871-2-ND	1,000	3600.00	C2225C911JZGACTU
				2500	1000pF	±5%	1.7	399-4863-1-ND	221.10	1306.50	3768.75	399-4863-2-ND	1,000	3618.00	C2225C102JZGACTU
				2500	1100pF	±5%	1.7	399-4864-1-ND	221.10	1306.50	3768.75	399-4864-2-ND	1,000	3618.00	C2225C112JZGACTU
				2500	1200pF	±5%	1.7	399-4865-1-ND	221.10	1306.50	3768.75	399-4865-2-ND	1,000	3618.00	C2225C122JZGACTU
				2000	12000pF	±10%	1.7	399-4866-1-ND	147.40	871.00	2512.50	399-4866-2-ND	1,000	2412.00	C2225C123KGRACTU
1000	56000pF			±10%	1.7	399-4867-1-ND	133.10	786.50	2268.75	399-4867-2-ND	1,000	2178.00	C2225C563KDRACTU		
X7R	1000	62000pF	±10%	1.7	399-4868-1-ND	134.20	793.00	2287.50	399-4868-2-ND	1,000	2196.00	C2225C623KDRACTU			
	500	1µF	±10%	1.15	399-3458-1-ND	82.50	487.50	1406.25	399-3458-2-ND	1,000	1350.00	C2225C104KCRACTU			
	500	2.2µF	±10%	1.7	399-3460-1-ND	82.50	487.50	1406.25	399-3460-2-ND	1,000	1350.00	C2225C224KCRACTU			
	50	1µF	±10%	1.0	399-3459-1-ND	66.55	393.25	1134.38	399-3459-2-ND	1,000	1089.00	C2225C105K5RACTU			
	50	2.2µF	±10%	1.3	399-3461-1-ND	105.05	620.75	1790.63	399-3461-2-ND	1,000	1719.00	C2225C225K5RACTU			

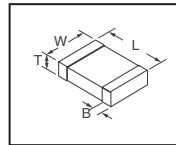
† Open Mode/Fail Safe Termination

NOTE: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered.

Capacitor Kits

- 399-5085-ND (Kemet Part No. CER ENG KIT 07) High Capacitance Value Capacitor Kit, 400 total pieces — **RoHS Compliant** (See Digi-Key website for values included) \$50.00
- 399-5086-ND (Kemet Part No. CER ENG KIT 08) High Voltage Capacitor Kit, 400 total pieces — **RoHS Compliant** (See Digi-Key website for values included) \$50.00
- 399-5087-ND (Kemet Part No. CER ENG KIT 09) Open Mode/Fail Safe Capacitor Kit, 200 total pieces — **RoHS Compliant** (See Digi-Key website for values included) \$50.00

Tip and Ring Ceramic Chip Capacitors



Size Code (EIA)	Dimensions - mm		
	L	W	B
0805	2.0±0.2	1.25 (≥25V: 1.2) ±0.2	0.5±0.25
1206	3.2±0.2	1.6±0.2	0.5±0.25
1210	3.2±0.2	2.5±0.2	0.5±0.25
1812	4.5±0.3	3.2±0.3	0.6±0.35
1825	4.5±0.3	6.4±0.4	0.6±0.35
2220	5.6±0.4	5.0±0.4	0.6±0.35
2225	5.6±0.4	6.3 (≥25V: 6.4) ±0.4	0.6±0.35

Kemet's Tip and Ring MLCC capacitors are excellent replacements for high voltage leaded film devices. The smaller footprints save valuable board space which is critical when creating new designs, and the capacitors are able to withstand today's higher lead-free reflow processing temperatures. The ceramic MLCC have excellent high frequency filtering characteristics, low ESR, and high temperature reflow capabilities. The 0805 and 1206 sizes are suitable for either reflow or wave soldering. Sizes 1210 and larger should be limited to reflow soldering only.

Case Size	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Kemet Part No.
							10	100	500		Qty.	Pricing	
0805	X7R	250	1000pF	±10%	0.78	399-4666-1-ND	5.78	34.13	98.44	399-4666-2-ND	4,000	95.00/M	C0805C102KARACTU
		250	2200pF	±10%	0.78	399-4667-1-ND	5.78	34.13	98.44	399-4667-2-ND	4,000	95.00/M	C0805C222KARACTU
		250	4700pF	±10%	0.78	399-4668-1-ND	5.78	34.13	98.44	399-4668-2-ND	4,000	95.00/M	C0805C472KARACTU
		250	10000pF	±10%	0.78	399-4669-1-ND	1.29	7.61	21.94	399-4669-2-ND	4,000	21.00/M	C0805C103KARACTU
		250	22000pF	±10%	0.78	399-4670-1-ND	1.29	7.61	21.94	399-4670-2-ND	4,000	95.00/M	C0805C223KARACTU
1206	X7R	250	10000pF	±10%	0.78	399-4671-1-ND	7.85	46.41	133.88	399-4671-2-ND	4,000	129.00/M	C1206C103KARACTU
		250	22000pF	±10%	0.78	399-4672-1-ND	7.85	46.41	133.88	399-4672-2-ND	4,000	129.00/M	C1206C223KARACTU
		250	47000pF	±10%	1.0	399-4673-1-ND	8.25	48.75	140.63	399-4673-2-ND	2,500	135.00/M	C1206C473KARACTU
		250	1µF	±10%	1.25	399-4674-1-ND	3.85	22.75	65.63	399-4674-2-ND	2,500	63.00/M	C1206C104KARACTU
1210	X7R	250	10000pF	±10%	0.78	399-4675-1-ND	13.86	81.90	236.25	399-4675-2-ND	4,000	227.00/M	C1210C103KARACTU
		250	1µF	±10%	1.25	399-4676-1-ND	16.86	99.65	287.44	399-4676-2-ND	2,500	278.00/M	C1210C104KARACTU
		250	1µF	±5%	1.0	399-4677-1-ND	41.80	247.00	712.50	399-4677-2-ND	1,000	684.00	C1210C104JARACTU
		250	2.2µF	±5%	1.5	399-4678-1-ND	27.82	164.39	474.19	399-4678-2-ND	1,000	455.00	C1210C104KARACTU
1812	X7R	250	22µF	±5%	1.5	399-4679-1-ND	43.89	259.35	748.13	399-4679-2-ND	1,000	718.00	C1812C224JARACTU
		250	2.2µF	±10%	1.5	399-4680-1-ND	29.21	172.58	497.81	399-4680-2-ND	1,000	478.00	C1812C224KARACT