

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		
2220	COG (NPO)	100	82000pF	±5%	1.0	399-5392-1-ND	93.76	554.01	1598.11	399-5392-2-ND	1,000	1534.04	C2220C823J1GACTU	
		100	.1µF	±5%	1.0	399-5393-1-ND	81.38	480.87	1387.12	399-5393-2-ND	1,000	1331.48	C2220C104J1GACTU	
		100	.12µF	±5%	1.0	399-5394-1-ND	97.75	577.61	1666.17	399-5394-2-ND	1,000	1599.38	C2220C124J1GACTU	
		100	.15µF	±5%	1.0	399-5395-1-ND	97.75	577.61	1666.17	399-5395-2-ND	1,000	1599.38	C2220C154J1GACTU	
		100	.22µF	±5%	1.0	399-5396-1-ND	91.84	542.69	1565.44	399-5396-2-ND	1,000	1502.82	C2220C224J1GACTU	
		100	.27µF	±5%	1.0	399-5397-1-ND	112.44	664.44	1916.64	399-5397-2-ND	1,000	1839.68	C2220C274J1GACTU	
		100	.33µF	±5%	1.3	399-5398-1-ND	112.44	664.44	1916.64	399-5398-2-ND	1,000	1839.68	C2220C334J1GACTU	
		50	33000pF	±5%	1.0	399-5374-1-ND	71.16	420.46	1212.88	399-5374-2-ND	1,000	1164.50	C2220C333J5GACTU	
		50	47000pF	±5%	1.0	399-5375-1-ND	64.93	383.65	1106.70	399-5375-2-ND	1,000	1062.14	C2220C473J5GACTU	
		50	56000pF	±5%	1.0	399-5376-1-ND	82.81	489.36	1411.62	399-5376-2-ND	1,000	1355.44	C2220C563J5GACTU	
		50	68000pF	±5%	1.0	399-5377-1-ND	82.81	489.36	1411.62	399-5377-2-ND	1,000	1355.44	C2220C683J5GACTU	
		50	82000pF	±5%	1.0	399-5378-1-ND	82.81	489.36	1411.62	399-5378-2-ND	1,000	1355.44	C2220C823J5GACTU	
		50	.1µF	±5%	1.0	399-5379-1-ND	72.11	426.13	1229.21	399-5379-2-ND	1,000	1179.75	C2220C104J5GACTU	
		50	.12µF	±5%	1.0	399-5380-1-ND	83.05	490.78	1415.70	399-5380-2-ND	1,000	1359.07	C2220C124J5GACTU	
		50	.15µF	±5%	1.0	399-5381-1-ND	83.05	490.78	1415.70	399-5381-2-ND	1,000	1359.07	C2220C154J5GACTU	
		50	.22µF	±5%	1.0	399-5382-1-ND	78.10	461.52	1331.30	399-5382-2-ND	1,000	1277.76	C2220C224J5GACTU	
	50	.27µF	±5%	1.0	399-5383-1-ND	99.67	588.93	1698.84	399-5383-2-ND	1,000	1630.60	C2220C274J5GACTU		
	50	.33µF	±5%	1.3	399-5384-1-ND	99.67	588.93	1698.84	399-5384-2-ND	1,000	1630.60	C2220C334J5GACTU		
	50	.47µF	±5%	1.7	399-5385-1-ND	86.65	512.01	1476.96	399-5385-2-ND	1,000	1417.88	C2220C474J5GACTU		
	2000	8200pF	±10%	1.7	399-4861-1-ND	92.64	547.40	1579.05	399-4861-2-ND	1,000	1515.89	C2220C822KGRACTU		
	1000	47000pF	±10%	1.7	399-4856-1-ND	83.85	495.50	1429.31	399-4856-2-ND	1,000	1372.14	C2220C473KDRACTU		
	2225	COG (NPO)	2500	750pF	±5%	1.7	399-4869-1-ND	159.72	943.80	2722.50	399-4869-2-ND	1,000	2613.60	C2225C751JZGACTU
			2500	820pF	±5%	1.7	399-4870-1-ND	159.72	943.80	2722.50	399-4870-2-ND	1,000	2613.60	C2225C821JZGACTU
			2500	910pF	±5%	1.7	399-4871-1-ND	159.72	943.80	2722.50	399-4871-2-ND	1,000	2613.60	C2225C911JZGACTU
			2500	1000pF	±5%	1.7	399-4863-1-ND	160.52	948.52	2736.11	399-4863-2-ND	1,000	2626.67	C2225C102JZGACTU
			2500	1100pF	±5%	1.7	399-4864-1-ND	160.52	948.52	2736.11	399-4864-2-ND	1,000	2626.67	C2225C112JZGACTU
			2500	1200pF	±5%	1.7	399-4865-1-ND	160.52	948.52	2736.11	399-4865-2-ND	1,000	2626.67	C2225C122JZGACTU
		X7R	2000	12000pF	±10%	1.7	399-4866-1-ND	107.01	632.35	1824.08	399-4866-2-ND	1,000	1751.11	C2225C123KGRACTU
1000			56000pF	±10%	1.7	399-4867-1-ND	96.63	571.00	1647.11	399-4867-2-ND	1,000	1581.23	C2225C563KDRACTU	
1000			62000pF	±10%	1.7	399-4868-1-ND	97.43	575.72	1660.73	399-4868-2-ND	1,000	1594.30	C2225C623KDRACTU	
500			.1µF	±10%	1.15	399-3458-1-ND	59.90	353.93	1020.94	399-3458-2-ND	1,000	980.10	C2225C104KCRACTU	
500			.22µF	±10%	1.7	399-3460-1-ND	59.90	353.93	1020.94	399-3460-2-ND	1,000	980.10	C2225C224KCRACTU	
50			1µF	±10%	1.0	399-3459-1-ND	48.32	285.50	823.56	399-3459-2-ND	1,000	790.61	C2225C105K5RACTU	
50			2.2µF	±10%	1.3	399-3461-1-ND	76.27	450.66	1300.00	399-3461-2-ND	1,000	1247.99	C2225C225K5RACTU	

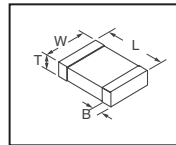
† Open Mode/Fail Safe Termination

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)	36.30
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)	36.30
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)	36.30

Tip and Ring Ceramic Chip Capacitors



Size Code (EIA)	Dimensions - mm		
	L	W	B
0805	2.0±0.2	1.25 (≥250V: 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 (≥250V: 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	4.20	24.78	71.47	399-4666-2-ND	4,000	68.97/M	C0805C102KARACTU
		250	2200pF	±10%	0.78	399-4667-1-ND	4.20	24.78	71.47	399-4667-2-ND	4,000	68.97/M	C0805C222KARACTU
		250	4700pF	±10%	0.78	399-4668-1-ND	4.20	24.78	71.47	399-4668-2-ND	4,000	68.97/M	C0805C472KARACTU
		250	10000pF	±10%	0.78	399-4669-1-ND	.94	5.52	15.93	399-4669-2-ND	4,000	15.25/M	C0805C103KARACTU
		250	22000pF	±10%	0.78	399-4670-1-ND	4.20	24.78	71.47	399-4670-2-ND	4,000	68.97/M	C0805C223KARACTU
1206	X7R	250	10000pF	±10%	0.78	399-4671-1-ND	5.70	33.69	97.20	399-4671-2-ND	4,000	93.66/M	C1206C103KARACTU
		250	22000pF	±10%	0.78	399-4672-1-ND	5.70	33.69	97.20	399-4672-2-ND	4,000	93.66/M	C1206C223KARACTU
		250	47000pF	±10%	1.0	399-4673-1-ND	5.99	35.39	102.10	399-4673-2-ND	2,500	98.02/M	C1206C473KARACTU
1210	X7R	250	10000pF	±10%	0.78	399-4675-1-ND	10.06	59.46	171.52	399-4675-2-ND	4,000	164.81/M	C1210C103KARACTU
		250	.1µF	±10%	1.25	399-4676-1-ND	12.24	72.35	208.68	399-4676-2-ND	2,500	200.38/M	C1210C104KARACTU
1812	X7R	250	.1µF	±5%	1.0	399-4677-1-ND	30.35	179.32	517.28	399-4677-2-ND	1,000	496.58	C1812C104JARACTU
		250	.1µF	±10%	1.0	399-4678-1-ND	20.20	119.35	344.26	399-4678-2-ND	1,000	330.33	C1812C104KARACTU
		250	.22µF	±5%	1.5	399-4679-1-ND	31.86	188.29	543.14	399-4679-2-ND	1,000	521.27	C1812C224JARACTU
		250	.22µF	±10%	1.5	399-4680-1-ND	21.21	125.29	361.41	399-4680-2-ND	1,000	347.03	C1812C224KARACTU
		250	.33µF	±5%	1.5	399-4681-1-ND	31.86	188.29	543.14	399-4681-2-ND	1,000	521.27	C1812C334JARACTU
		250	.33µF	±10%	1.5	399-4682-1-ND	21.21	125.29	361.41	399-4682-2-ND	1,000	347.03	C1812C334KARACTU
1825	X7R	250	.47µF	±10%	1.3	399-4685-1-ND	43.92	259.55	748.69	399-4685-2-ND	1,000	718.74	C1825C474KARACTU
		250	.68µF	±10%	1.3	399-4686-1-ND	43.92	259.55	748.69	399-4686-2-ND	1,000	718.74	C1825C684KARACTU
		250	1µF	±10%	1.5	399-4687-1-ND	43.92	259.55	748.69	399-4687-2-ND	1,000	718.74	C1825C105KARACTU
2220	X7R	250	.47µF	±10%	1.1	399-4688-1-ND	47.92	283.14	816.75	399-4688-2-ND	1,000	784.08	C2220C474KARACTU
		250	.68µF	±10%	1.3	399-4689-1-ND	47.92	283.14	816.75	399-4689-2-ND	1,000	784.08	C2220C684KARACTU
		250	1µF	±10%	1.5	399-4690-1-ND	47.92	283.14	816.75	399-4690-2-ND	1,000	784.08	C2220C105KARACTU
2225	X7R	250	.47µF	±10%	1.3	399-4691-1-ND	52.71	311.45	898.43	399-4691-2-ND	1,000	862.49	C2225C474KARACTU
		250	.68µF	±10%	1.3	399-4692-1-ND	52.71	311.45	898.43	399-4692-2-ND	1,000	862.49	C2225C684KARACTU
		250	1µF	±10%	1.4	399-4693-1-ND	52.71	311.45	898.43	399-4693-2-ND	1,000	862.49	C2225C105KARACTU
		250	1.2µF	±10%	1.4	399-4694-1-ND	52.71	311.45	898.43	399-4694-2-ND	1,000	862.49	C2225C125KARACTU

Free shipping on orders over £50! All prices are in British pound sterling and include duties.