

# KEMET Ceramic Capacitors

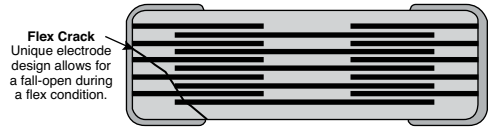
The Capacitance Company  
**KEMET**  
CHARGED™

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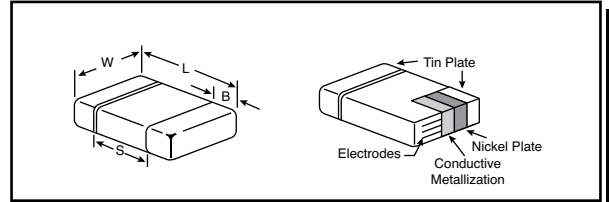
## FAIL-SAFE FLOATING ELECTRODE MLCC/FE-CAP

RoHS Compliant This product is RoHS compliant.

The FE-CAP is a surface mount multilayer ceramic capacitor which utilizes a floating internal electrode design, wherein the electrodes are configured to form multiple capacitors in series within a single MLCC package. This not only yields improved voltage and ESD protection over standard designs, but also mitigates the risk of low-IR or short-circuits failures that can occur due to board flex. The FE-CAP is being offered in case sizes ranging from EIA 0402 to EIA 1812 with rated voltages ranging from 6.3VDC to 250VDC. Combined with the stability of an X7R dielectric, the FE-CAP offers a flex-robust solution at low to mid-range capacitance values and an operating temperature range of -55°C to +125°C with zero bias capacitance shift limited to ±15% over that range. These components are widely used in critical application where mechanical stress is a concern. When flexed to mechanical failure the floating electrode design of the FE-CAP eliminates the current path between positive and negative poles. Absence of this current path reduces the probability of a short-circuit condition. All FE-CAP products meet the requirements of the Automotive Electronics Council's AEC-Q200-Rev C and come with 100% pure matte, tin-plated terminations for superior solderability. All parts are environmentally friendly, in compliance with RoHS legislation and are capable of Pb-free reflow profiles.



EIA Size Code	Metric Size Code	DIMENSIONS: mm (in.)			
		L Length	W Width	B Bandwidth	S Separation
0402	1005	1.0 (.04) ± 0.05 (.002)	0.5 (.02) ± 0.05 (.002)	0.20 (.008) -0.40 (.016)	0.30 (.012)
0603	1608	1.6 (.063) ± 0.15 (.006)	0.8 (.032) ± 0.15 (.006)	0.35 (.014) ± 0.15 (.006)	0.70 (.028)
0805	2012	2.0 (.079) ± 0.20 (.008)	1.25 (.049) ± 0.20 (.008)	0.05 (.02) ± 0.25 (.010)	0.75 (.030)
1206	3216	3.2 (.126) ± 0.20 (.008)	1.6 (.063) ± 0.20 (.008)	0.50 (.02) ± .25 (.010)	N/A
1210	3225	3.2 (.126) ± 0.20 (.008)	2.5 (.098) ± 0.20 (.008)	0.50 (.02) ± .25 (.010)	N/A
1812	4532	4.5 (.177) ± 0.30 (.012)	3.2 (.126) ± 0.30 (.012)	0.60 (.024) ± .35 (.014)	N/A



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	KEMET Part Number	Value (pF)	Volt.	Tol. (+/-)	Price Each			Qty. per Reel	Price Each
					1	100	500		
<b>0402</b>									
80-C0402S221K3R	C0402S221K3RACTU	220	25	10				10000	
80-C0402S221K5R	C0402S221K5RACTU	220	50	10				10000	
80-C0402S391K5R	C0402S391K5RACTU	390	50	10				10000	
80-C0402S471K4R	C0402S471K4RACTU	470	16	10				10000	
80-C0402S471K5R	C0402S471K5RACTU	470	50	10				10000	
80-C0402S561K4R	C0402S561K4RACTU	560	16	10				10000	
80-C0402S681K5R	C0402S681K5RACTU	680	50	10				10000	
80-C0402S821K4R	C0402S821K4RACTU	820	16	10				10000	
80-C0402S821K5R	C0402S821K5RACTU	820	50	10				10000	
80-C0402S102K4R	C0402S102K4RACTU	1000	16	10				10000	
80-C0402S102K3R	C0402S102K3RACTU	1000	25	10				10000	
80-C0402S102K5R	C0402S102K5RACTU	1000	50	10				10000	
<b>0603</b>									
80-C0603S221K5R	C0603S221K5RACTU	220	50	10				4000	
80-C0603S221K1R	C0603S221K1RACTU	220	100	10				4000	
80-C0603S331J5R	C0603S331J5RACTU	330	50	5				4000	
80-C0603S331K5R	C0603S331K5RACTU	330	50	10				4000	
80-C0603S471K5R	C0603S471K5RACTU	470	50	10				4000	
80-C0603S471K1R	C0603S471K1RACTU	470	100	10				4000	
80-C0603S561K5R	C0603S561K5RACTU	560	50	10				4000	
80-C0603S681K3R	C0603S681K3RACTU	680	25	10				4000	
80-C0603S681K5R	C0603S681K5RACTU	680	50	10				4000	
80-C0603S821K5R	C0603S821K5RACTU	820	50	10				4000	
80-C0603S102K4R	C0603S102K4RACTU	1000	16	10				4000	
80-C0603S102K3R	C0603S102K3RACTU	1000	25	10				4000	
80-C0603S102J5R	C0603S102J5RACTU	1000	50	5				4000	
80-C0603S102K5R	C0603S102K5RACTU	1000	50	10				4000	
80-C0603S102K1R	C0603S102K1RACTU	1000	100	10				4000	
80-C0603S102K2R	C0603S102K2RACTU	1000	200	10				4000	
80-C0603S122K5R	C0603S122K5RACTU	1200	50	10				4000	
80-C0603S152K5R	C0603S152K5RACTU	1500	50	10				4000	
80-C0603S152K1R	C0603S152K1RACTU	1500	100	10				4000	
80-C0603S182K5R	C0603S182K5RACTU	1800	50	10				4000	
80-C0603S182K1R	C0603S182K1RACTU	1800	100	10				4000	
80-C0603S222K3R	C0603S222K3RACTU	2200	25	10				4000	
80-C0603S222J5R	C0603S222J5RACTU	2200	50	5				4000	
80-C0603S222K5R	C0603S222K5RACTU	2200	50	10				4000	
80-C0603S222K1R	C0603S222K1RACTU	2200	100	10				4000	
80-C0603S272K5R	C0603S272K5RACTU	2700	50	10				4000	
80-C0603S272K1R	C0603S272K1RACTU	2700	100	10				4000	
80-C0603S332K5R	C0603S332K5RACTU	3300	50	10				4000	
80-C0603S392K5R	C0603S392K5RACTU	3900	50	10				4000	
80-C0603S472K3R	C0603S472K3RACTU	4700	25	10				4000	
80-C0603S472J5R	C0603S472J5RACTU	4700	50	5				4000	
80-C0603S472K5R	C0603S472K5RACTU	4700	50	10				4000	
80-C0603S562K5R	C0603S562K5RACTU	5600	50	10				4000	
80-C0603S682K5R	C0603S682K5RACTU	6800	50	10				4000	
80-C0603S822K5R	C0603S822K5RACTU	8200	50	10				4000	
80-C0603S103K4R	C0603S103K4RACTU	10000	16	10				4000	
80-C0603S103K3R	C0603S103K3RACTU	10000	25	10				4000	
80-C0603S103M3R	C0603S103M3RACTU	10000	25	20				4000	
80-C0603S103J5R	C0603S103J5RACTU	10000	50	5				4000	
80-C0603S103K5R	C0603S103K5RACTU	10000	50	10				4000	
80-C0603S103M5R	C0603S103M5RACTU	10000	50	20				4000	
80-C0603S153K3R	C0603S153K3RACTU	15000	25	10				4000	
80-C0603S153K5R	C0603S153K5RACTU	15000	50	10				4000	
80-C0603S183K3R	C0603S183K3RACTU	18000	25	10				4000	
80-C0603S223K4R	C0603S223K4RACTU	22000	16	10				4000	
80-C0603S223J3R	C0603S223J3RACTU	22000	25	5				4000	
80-C0603S223K3R	C0603S223K3RACTU	22000	25	10				4000	
80-C0603S223K5R	C0603S223K5RACTU	22000	50	10				4000	
<b>0805</b>									
80-C0805S221K5R	C0805S221K5RACTU	220	50	10				4000	
80-C0805S221K2R	C0805S221K2RACTU	220	200	10				4000	
80-C0805S471J5R	C0805S471J5RACTU	470	50	5				4000	
80-C0805S471K5R	C0805S471K5RACTU	470	50	10				4000	
80-C0805S471K1R	C0805S471K1RACTU	470	100	10				4000	
80-C0805S102K5R	C0805S102K5RACTU	1000	50	10				4000	
80-C0805S102M5R	C0805S102M5RACTU	1000	50	20				4000	
<b>1206</b>									
80-C1206S102K5R	C1206S102K5RACTU	1000	50	10				4000	
80-C1206S102K1R	C1206S102K1RACTU	1000	100	10				4000	
80-C1206S102M1R	C1206S102M1RACTU	1000	100	20				4000	
80-C1206S102K2R	C1206S102K2RACTU	1000	200	10				4000	
80-C1206S222K1R	C1206S222K1RACTU	2200	100	10				4000	
80-C1206S222K2R	C1206S222K2RACTU	2200	200	10				4000	
80-C1206S332K5R	C1206S332K5RACTU	3300	50	10				4000	
80-C1206S472K5R	C1206S472K5RACTU	4700	50	10				4000	
80-C1206S103K5R	C1206S103K5RACTU	10000	50	10				4000	
80-C1206S103M5R	C1206S103M5RACTU	10000	50	20				4000	
80-C1206S103J1R	C1206S103J1RACTU	10000	100	5				4000	
80-C1206S103K1R	C1206S103K1RACTU	10000	100	10				4000	
80-C1206S103M1R	C1206S103M1RACTU	10000	100	20				4000	
80-C1206S103K2R	C1206S103K2RACTU	10000	200	10				4000	
80-C1206S103M2R	C1206S103M2RACTU	10000	200	20				4000	
80-C1206S153J2R	C1206S153J2RACTU	15000	200	5				4000	
80-C1206S223K5R	C1206S223K5RACTU	22000	50	10				4000	
80-C1206S223K1R	C1206S223K1RACTU	22000	100	10				4000	
80-C1206S223K2R	C1206S223K2RACTU	22000	200	10				4000	
80-C1206S333K5R	C1206S333K5RACTU	33000	50	10				4000	
80-C1206S473K5R	C1206S473K5RACTU	47000	50	10				4000	
80-C1206S473K1R	C1206S473K1RACTU	47000	100	10				4000	
80-C1206S104J5R	C1206S104J5RACTU	0.1uF	50	5				4000	
80-C1206S104K5R	C1206S104K5RACTU	0.1uF	50	10				4000	
80-C1206S104M5R	C1206S104M5RACTU	0.1uF	50	20				4000	
<b>1210</b>									
80-C1210S333K2R	C1210S333K2RACTU	33000	200	10				4000	
80-C1210S473K1R	C1210S473K1RACTU	47000	100	10				4000	
80-C1210S473K2R	C1210S473K2RACTU	47000	200	10				4000	
80-C1210S104J5R	C1210S104J5RACTU	0.1uF	50	5				4000	
80-C1210S104K5R	C1210S104K5RACTU	0.1uF	50	10				4000	
80-C1210S104K1R	C1210S104K1RACTU	0.1uF	100	10				4000	
80-C1210S104M1R	C1210S104M1RACTU	0.1uF	100	20				4000	
80-C1210S224K5R	C1210S224K5RACTU	0.22uF	50	10				4000	
<b>1812</b>									
80-C1812S104K1R	C1812S104K1RACTU	0.1uF	100	10				4000	
80-C1812S224K5R	C1812S224K5RACTU	0.22uF	50	10				4000	

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