

# KEMET Ceramic Capacitors

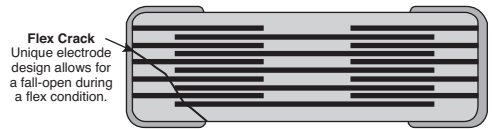
The Capacitance Company  
**KEMET**  
CHARGED™



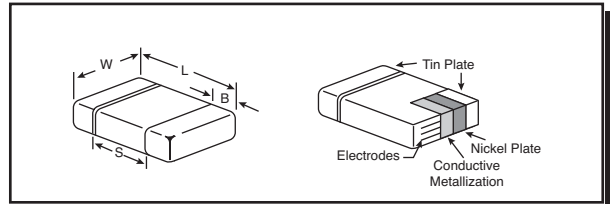
## FAIL-SAFE FLOATING ELECTRODE MLCC/FE-CAP

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 performance 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



Flexible Termination, SMD KEMET

For quantities greater than listed, call for quote.

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MOUSER STOCK NO.	KEMET Part No.	Value (pF)	Volt.	Tol. (+/-)	Price Each			Reel Qty	Price Per Piece
					1	100	500		
0402									
80-C0402S221K3R	C0402S221K3RACTU	220	25	10	.48	.31	.23	10000	.13
80-C0402S221K5R	C0402S221K5RACTU	220	50	10	.48	.31	.23	10000	.13
80-C0402S391K5R	C0402S391K5RACTU	390	50	10	.48	.31	.23	10000	.13
80-C0402S471K4R	C0402S471K4RACTU	470	16	10	.48	.31	.23	10000	.13
80-C0402S471K5R	C0402S471K5RACTU	470	50	10	.48	.31	.23	10000	.13
80-C0402S561K4R	C0402S561K4RACTU	560	16	10	.48	.31	.23	10000	.13
80-C0402S821K4R	C0402S821K4RACTU	820	16	10	.48	.31	.23	10000	.13
80-C0402S821K5R	C0402S821K5RACTU	820	50	10	.48	.31	.23	10000	.13
80-C0402S102K4R	C0402S102K4RACTU	1000	16	10	.30	.25	.21	10000	.11
80-C0402S102K3R	C0402S102K3RACTU	1000	25	10	.30	.25	.21	10000	.11
80-C0402S102K5R	C0402S102K5RACTU	1000	50	10	.30	.25	.21	10000	.11

MOUSER STOCK NO.	KEMET Part No.	Value (pF)	Volt.	Tol. (+/-)	Price Each			Reel Qty	Price Per Piece
					1	100	500		
0603									
80-C0603S221K5R	C0603S221K5RACTU	220	50	10	.19	.12	.11	4000	.08
80-C0603S221K1R	C0603S221K1RACTU	220	100	10	.39	.23	.138	4000	.08
80-C0603S331J5R	C0603S331J5RACTU	330	50	5	.28	.19	.14	4000	.11
80-C0603S331K5R	C0603S331K5RACTU	330	50	10	.19	.12	.11	4000	.08
80-C0603S471K5R	C0603S471K5RACTU	470	50	10	.19	.12	.11	4000	.08
80-C0603S471K1R	C0603S471K1RACTU	470	100	10	.39	.23	.138	4000	.08
80-C0603S561K5R	C0603S561K5RACTU	560	50	10	.19	.12	.11	4000	.08
80-C0603S681K3R	C0603S681K3RACTU	680	25	10	.19	.12	.11	4000	.08
80-C0603S681K5R	C0603S681K5RACTU	680	50	10	.19	.12	.11	4000	.08
80-C0603S821K5R	C0603S821K5RACTU	820	50	10	.19	.12	.11	4000	.08
80-C0603S102K4R	C0603S102K4RACTU	1000	16	10	.19	.12	.11	4000	.08
80-C0603S102K3R	C0603S102K3RACTU	1000	25	10	.19	.12	.11	4000	.08
80-C0603S102J5R	C0603S102J5RACTU	1000	50	5	.28	.19	.14	4000	.11
80-C0603S102K5R	C0603S102K5RACTU	1000	50	10	.19	.12	.11	4000	.08
80-C0603S102K1R	C0603S102K1RACTU	1000	100	10	.39	.23	.138	4000	.08
80-C0603S102K2R	C0603S102K2RACTU	1000	200	10	.26	.17	.13	4000	.10
80-C0603S122K5R	C0603S122K5RACTU	1200	50	10	.19	.12	.11	4000	.08
80-C0603S152K5R	C0603S152K5RACTU	1500	50	10	.19	.12	.11	4000	.08
80-C0603S152K1R	C0603S152K1RACTU	1500	100	10	.39	.23	.138	4000	.08
80-C0603S182K5R	C0603S182K5RACTU	1800	50	10	.19	.12	.11	4000	.08
80-C0603S182K1R	C0603S182K1RACTU	1800	100	10	.39	.23	.138	4000	.08
80-C0603S222K3R	C0603S222K3RACTU	2200	25	10	.19	.12	.11	4000	.08
80-C0603S222J5R	C0603S222J5RACTU	2200	50	5	.28	.19	.14	4000	.11
80-C0603S222K5R	C0603S222K5RACTU	2200	50	10	.19	.12	.11	4000	.08
80-C0603S222K1R	C0603S222K1RACTU	2200	100	10	.39	.23	.138	4000	.08
80-C0603S272K5R	C0603S272K5RACTU	2700	50	10	.19	.12	.11	4000	.08
80-C0603S272K3R	C0603S272K3RACTU	2700	100	10	.39	.23	.138	4000	.08
80-C0603S322K5R	C0603S322K5RACTU	3300	50	10	.19	.12	.11	4000	.08
80-C0603S392K5R	C0603S392K5RACTU	3900	50	10	.19	.12	.11	4000	.08
80-C0603S472K3R	C0603S472K3RACTU	4700	25	10	.15	.10	.09	4000	.06
80-C0603S472J5R	C0603S472J5RACTU	4700	50	5	.28	.19	.14	4000	.11
80-C0603S472K5R	C0603S472K5RACTU	4700	50	10	.19	.12	.11	4000	.08
80-C0603S562K5R	C0603S562K5RACTU	5600	50	10	.19	.12	.11	4000	.08
80-C0603S682K5R	C0603S682K5RACTU	6800	50	10	.19	.12	.11	4000	.08
80-C0603S822K5R	C0603S822K5RACTU	8200	50	10	.19	.12	.11	4000	.08
80-C0603S103K4R	C0603S103K4RACTU	10000	16	10	.15	.10	.09	4000	.06
80-C0603S103K3R	C0603S103K3RACTU	10000	25	10	.15	.10	.09	4000	.06
80-C0603S103M3R	C0603S103M3RACTU	10000	25	20	.14	.09	.07	4000	.05
80-C0603S103J5R	C0603S103J5RACTU	10000	50	5	.28	.19	.14	4000	.11
80-C0603S103K5R	C0603S103K5RACTU	10000	50	10	.19	.12	.11	4000	.08
80-C0603S103M5R	C0603S103M5RACTU	10000	50	20	.29	.19	.134	4000	.065
80-C0603S153K3R	C0603S153K3RACTU	15000	25	10	.15	.10	.09	4000	.06
80-C0603S153K5R	C0603S153K5RACTU	15000	50	10	.81	.53	.38	4000	.146
80-C0603S183K3R	C0603S183K3RACTU	18000	25	10	.15	.10	.09	4000	.06
80-C0603S223K4R	C0603S223K4RACTU	22000	16	10	.15	.10	.09	4000	.06
80-C0603S223J3R	C0603S223J3RACTU	22000	25	5	.21	.14	.11	4000	.08
80-C0603S223K3R	C0603S223K3RACTU	22000	25	10	.15	.10	.09	4000	.06
80-C0603S223K5R	C0603S223K5RACTU	22000	50	10	.81	.53	.38	4000	.146

MOUSER STOCK NO.	KEMET Part No.	Value (pF)	Volt.	Tol. (+/-)	Price Each			Reel Qty	Price Per Piece
					1	100	500		
0805									
80-C0805S102K1R	C0805S102K1RACTU	1000	100	10	.81	.53	.38	4000	.146
80-C0805S102K2R	C0805S102K2RACTU	1000	200	10	.46	.27	.21	4000	.16
80-C0805S102M2R	C0805S102M2RACTU	1000	200	20	.23	.15	.12	4000	.09
80-C0805S152K5R	C0805S152K5RACTU	1500	50	10	.33	.27	.21	4000	.08
80-C0805S222K5R	C0805S222K5RACTU	2200	50	10	.33	.27	.21	4000	.08
80-C0805S222K1R	C0805S222K1RACTU	2200	100	10	.81	.53	.38	4000	.146
80-C0805S222K2R	C0805S222K2RACTU	2200	200	10	.46	.27	.21	4000	.16
80-C0805S332K5R	C0805S332K5RACTU	3300	50	10	.33	.27	.21	4000	.08
80-C0805S472J5R	C0805S472J5RACTU	4700	50	5	.27	.18	.14	4000	.10
80-C0805S472K5R	C0805S472K5RACTU	4700	50	10	.33	.27	.21	4000	.08
80-C0805S472K1R	C0805S472K1RACTU	4700	100	10	.81	.53	.38	4000	.146
80-C0805S472K2R	C0805S472K2RACTU	4700	200	10	.46	.27	.21	4000	.16
80-C0805S682K5R	C0805S682K5RACTU	6800	50	10	.33	.27	.21	4000	.08
80-C0805S103J5R	C0805S103J5RACTU	10000	50	5	.27	.18	.14	4000	.10
80-C0805S103K5R	C0805S103K5RACTU	10000	50	10	.33	.27	.21	4000	.08
80-C0805S103M5R	C0805S103M5RACTU	10000	50	20	.29	.19	.129	4000	.062
80-C0805S103K1R	C0805S103K1RACTU	10000	100	10	.81	.53	.38	4000	.146
80-C0805S103M1R	C0805S103M1RACTU	10000	100	20	.19	.12	.11	4000	.08
80-C0805S123K1R	C0805S123K1RACTU	12000	100	10	.38	.25	.20	4000	.12
80-C0805S123M1R	C0805S123M1RACTU	12000	100	20	.81	.53	.38	4000	.146
80-C0805S153K4R	C0805S153K4RACTU	15000	16	10	.36	.23	.16	4000	.067
80-C0805S153K5R	C0805S153K5RACTU	15000	50	10	.36	.23	.16	4000	.067
80-C1206S153K2R	C1206S153K2RACTU	15000	200	10	.34	.23	.20	4000	.14
80-C0805S223J5R	C0805S223J5RACTU	22000	50	5	.41	.30	.26	4000	.19
80-C0805S223K5R	C0805S223K5RACTU	22000	50	10	.36	.23	.16	4000	.067
80-C0805S223K1R	C0805S223K1RACTU	22000	100	10	.38	.25	.20	4000	.12
80-C0805S273K5R	C0805S273K5RACTU	27000	50	10	.36	.23	.16	4000	.08
80-C0805S333K5R	C0805S333K5RACTU	33000	50	10	.40	.24	.139	4000	.08
80-C0805S473K5R	C0805S473K5RACTU	47000	50	10	.24				