SOLUTIONS

Flex Mitigation Multilayer Ceramic Capacitors

Hybrid Technology

The Capacitance Company
KEMET CHARGED.®

Why Choose KEMET

KEMET applies world-class service and quality to deliver industry-leading, high performance capacitance solutions worldwide. With 95% of possible dielectric solutions, KEMET offers the world's most complete line of surface mount and through-hole capacitor technologies across tantalum, ceramic, film, aluminum and paper dielectrics. One world. One KEMET.

Features & Benefits

- Fail open electrode designs
- Low to high capacitance flex mitigation
- Flex mitigation technology inside the chip and in the termination area
- Provides protection against a low IR or short circuit condition
- Superior flex performance (up to 5 mm)
- Pb-Free and RoHS compliant

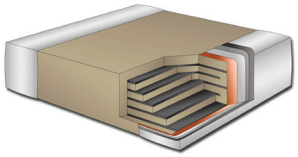
Product Checklist

- Is this a critical and safety relevant circuit?
- Is your circuit board subject to high levels of board flexure during assembly, mounting or depanelization?
- Are you placing MLCCs close to the edges or corners of your board?
- Are MLCCs being placed near or around connectors or heavy components?
- Do you require a case size smaller than EIA 0603?
- Is mechanical or thermal stress a concern in your application?
- Is your application commercial or automotive?
- What are your capacitance requirements?

For more information, samples and engineering kits, please visit us at www.kemet.com or call 1.877.myKEMET.

Programs Supported

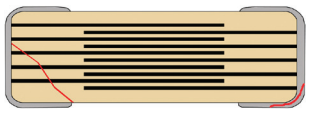
- Commercial
- Automotive



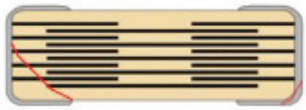
KEMET Electrical/Physical Characteristics

Dielectric	Case Sizes	Tolerances	Temperature Range	Voltage Options	Capacitance Values
Flexible Termination + Open Mode (FO-CAP)					
X7R	0805 - 1812	± 5%, ±10%, ± 20%	- 55°C to +125°C	16 – 200 V	1,000 pF – 6.8 µF
Flexible Termination + Floating Electrode (FF-CAP)					
X7R	0603 - 1812	± 5%, ± 10%, ± 20%	- 55°C to +125°C	6.3 – 250 V	180 pF – 0.22 µF

Flexible Termination + Open Mode (FO-CAP)



Flexible Termination + Floating Electrode (FF-CAP)



Ordering Information

Ceramic	Case Size (L" x W")	Specification/ Series	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Dielectric	Failure Rate/Design	Termination Finish[1]	Packaging/Grade (C-Spec)[2]
C	**1210**	**F**	**685**	**K**	**3**	**R**	**A**	**C**	**TU**
	0805 1206 1210 1812	**J = Flexible Termination with Open Mode**	2 Significant Digits + Number of Zeros	K = ±10% M = ±20%	4 = 16 V 3 = 25 V 5 = 50 V 1 = 100 V 2 = 200 V	R = X7R	A = N/A	C = 100% Matte Sn L = SnPb (5% min)	Blank = Bulk TU = 7" Reel Unmarked TM = 7" Reel Marked AUTO = Automotive Grade 7"Reel Unmarked
C	**0805**	**Y**	**104**	**K**	**5**	**R**	**A**	**C**	**TU**
	0603 0805 1206 1210 1812	**Y = Flexible Termination with Floating Electrode**	2 Signicant Digits + Number of Zeros	J = ±5% K = ±10% M = ±20%	9 = 6.3 V 8 = 10 V 4 = 16 V 3 = 25 V 5 = 50 V 1 = 100 V 2 = 200 V A = 250 V	R = X7R	A = N/A	C = 100% Matte Sn L = SnPb (5% min)	Blank = Bulk TU = 7" Reel Unmarked TM = 7" Reel Marked

[1] Additional termination finish options may be available. Contact KEMET for details.
[1,2] SnPb termination finish option is not available on Automotive Grade product.
[2] Additional reeling or packaging options may be available. Contact KEMET for details.