

# Surface Mount Multilayer Ceramic Capacitors

Electronic Components

CHARGED.\*

High Temperature 175°C X7R Dielectric

## Why Choose KEMET

KEMET Electronics Corporation is a leading global supplier of electronic components. We offer our customers the broadest selection of capacitor technologies in the industry, along with an expanding range of electromechanical devices, electromagnetic compatibility solutions and supercapacitors. Our vision is to be the preferred supplier of electronic component solutions for customers demanding the highest standards of quality, delivery and service.

#### Features & Benefits

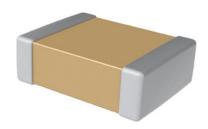
- Operating temperature range of -55°C to +175°C
- · Voltage derating not required
- · Lead (Pb)-Free, RoHS and REACH compliant
- Base metal electrode (BME) dielectric system
- Available capacitance tolerances of ±5%, ±10% and ±20%
- Non-polar device, minimizing installation concerns
- 100% pure matte tin-plated termination finish allowing for excellent solderability
- Flexible termination option available upon request

#### **Product Checklist**

- · What is the end application?
- Is the application temperature above 150°C?
- Are you currently using a solution that requires voltage derating?
- Does your application require a voltage and temperature stable dielectric solution?
- What capacitance is required at operating temperature?
- What is the application voltage at operating temperature?
- Do you require a lead (Pb)-Free, RoHS and REACH compliant solution?
- Does your current solution provide consistent reliability and performance?
- Is mechanical stress, extreme thermal cycling, shock and/or vibration a concern?

### **Programs Supported**

- · Down-hole oil and gas exploration
- · Aerospace engine compartments
- Geophysical probes
- · Heavy commercial and specialty vehicles
- · Construction Equipment
- · Industrial process control
- Defense
- Medical



### **Electrical/Physical Characteristics**

Case Size	Tolerances	Dielectric	Temperature Range	Voltage Options	Capacitance Values
0402	J	X7R	-55°C to 175°C	16 V	2.7 nF to 3.3 μF
0603	K			25 V	
0805	M			50 V	
1206				100 V	
1210				200 V	
1812					

## Ordering Information

C	1210	R	225	K	3	R	Α	C	T050
Ceramic	Case Size (L" x W")	Specification/ Series	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Dielectric	Failure Rate/ Design	Termination Finish	Packaging (C-Spec)
	0402 0603 0805 1206 1210 1812	G = 175°C R = 175°C w/ Flexible Termination		$\begin{array}{l} J = \pm 5\% \\ K = \pm 10\% \\ M = \pm 20\% \end{array}$	4 = 16 3 = 25 5 = 50 1 = 100 2 = 200	R = X7R	A = N/A	C = 100% Matte Sn	Blank = Bulk 7292 = Waffle pack / Tray TU = 7" Reel - Unmarked (full reel quantity) T050 = 50 pcs / 7" Reel - Unmarked T100 = 100 pcs / 7" Reel - Unmarked T250 = 250 pcs / 7" Reel - Unmarked T500 = 500 pcs / 7" Reel - Unmarked T100 = 1,000 pcs / Reel - Unmarked

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

SA0615 Copyright © 2015 KEMET

# **X-ON Electronics**

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Multilayer Ceramic Capacitors MLCC - SMD/SMT category:

Click to view products by Kemet manufacturer:

Other Similar products are found below:

M39014/01-1467 M39014/02-1218V M39014/02-1225V M39014/02-1262V M39014/02-1301 M39014/22-0631 1210J5000102JCT

1210J2K00102KXT 1210J5000103KXT 1210J5000223KXT D55342E07B379BR-TR D55342E07B523DR-T/R 1812J1K00103KXT

1812J1K00473KXT 1812J2K00680JCT 1812J4K00102MXT 1812J5000102JCT 1812J5000103JCT 1812J5000682JCT NIN-FB391JTRF

NIN-FC2R7JTRF NPIS27H102MTRF C1206C101J1GAC C1608C0G1E472JT000N C2012C0G2A472J 2220J2K00101JCT

KHC201E225M76N0T00 LRC-LRF1206LF-01R025FTR1K 1812J1K00222JCT 1812J2K00102KXT 1812J2K00222KXT

1812J2K00472KXT 2-1622820-7-CUT-TAPE 2220J3K00102KXT 2225J2500824KXT CCR07CG103KM CGA2B2C0G1H010C

CGA2B2C0G1H040C CGA2B2C0G1H050C CGA2B2C0G1H060D CGA2B2C0G1H070D CGA2B2C0G1H151J CGA2B2C0G1H1R5C

CGA2B2C0G1H2R2C CGA2B2C0G1H3R3C CGA2B2C0G1H680J CGA2B2C0G1H6R8D CGA2B2X8R1H221K CGA2B2X8R1H472K

CGA3E1X7R1C474K