



Through-Hole Ceramic Capacitors

150°C Aximax

Electronic Components
KEMET
CHARGED.®

Why Choose KEMET

KEMET Corporation is a leading global supplier of electronic components. We offer our customers the broadest selection of capacitor technologies in the industry across all dielectrics, 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

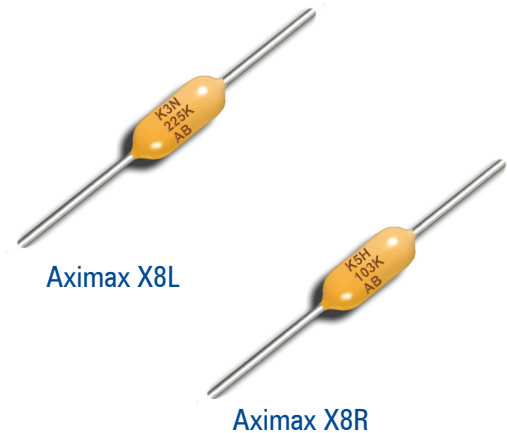
- Operating temperature range of -55°C to +150°C
- Automotive Grade available
- Pb-Free and RoHS compliant
- Base metal electrode (BME) dielectric system
- Low ESR and ESL
- High thermal stability
- Flex crack resistance
- Improved piezoelectric properties over surface mount technology
- SnPb lead finish option available upon request
- Ultra-Stable X8R dielectric:
 - No capacitance change with respect to applied DC voltage
 - Negligible capacitance change with respect to temperature

Product Checklist

- What is the end application?
- Do you require an axial footprint?
- What are the dimensional requirements?
- Is board space constrained?
- Is the application temperature above 125°C?
- 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?

Programs Supported

- Power supplies
- Security/alarms
- Consumer appliances
- Automotive
- Medical
- Telecommunications
- Test and industrial equipment
- Bypass
- Signal coupling
- Switching mode power supply
- Decoupling
- Noise filters
- Snubbers
- Down-hole exploration
- Automotive (under-the-hood)



Electrical/Physical Characteristics

Style/Size	Tolerances	Dielectric	Temperature Range	Voltage Options	Values
410 420 430 440	F G J K M	Ultra-Stable X8R, X8L	-55°C to 150°C	25 50 100 200	100 pF to 0.82 uF

Ordering Information

C	410	C	105	K	3	H	5	T	A	7200
Ceramic	Style/Size	Specification/ Series	Capacitance Code (pF)	Capacitance Tolerance	Voltage	Dielectric	Design	Lead Finish	Failure Rate	Packaging/ Grade (C-Spec)
	410 420 430 440	C = Standard	2 Sig. Digits + Number of Zeros.	F = ±1% G = ±2% J = ±5% K = ±10% M = ±20%	3 = 25 V 5 = 50 V 1 = 100 V 2 = 200 V	H = Ultra-Stable X8R N = X8L	5 = Multilayer	T = 100% Matte Sn H = SnPb (60/40)	A = N/A	Blank = Bulk 7200 = 12" Reel AUTO = Automotive Grade

Dimension Table

Style/Size	L Max.	D Max.	LD +0.001 (0.025) -0.003 (0.076)	LL Min.
C410	0.170 (4.32)	0.100 (2.54)	0.020 (0.51)	1.0 (25.4)
C420	0.200 (5.08)	0.100 (2.54)	0.020 (0.51)	1.0 (25.4)
C430	0.240 (6.10)	0.150 (3.81)	0.020 (0.51)	1.0 (25.4)
C440	0.260 (6.60)	0.150 (3.81)	0.020 (0.51)	1.0 (25.4)

