

Aximax, 400, Conformally Coated, COG Dielectric, 25 – 250 VDC (Commercial Grade)

Overview

KEMET's Aximax conformally coated axial leaded ceramic capacitors in COG dielectric feature a 125°C maximum operating temperature. The Electronics Industries Alliance (EIA) characterizes COG dielectric as a Class I "stable" material. Components of this classification are temperature compensating and are suited for resonant circuit applications or those where Q and stability of capacitance characteristics are required. COG exhibits no

change in capacitance with respect to time and voltage and boasts a negligible change in capacitance with reference to ambient temperature. Capacitance change is limited to $\pm 30\text{ppm}/^\circ\text{C}$ from -55°C to $+125^\circ\text{C}$.

These devices meet the flame test requirements outlined in UL Standard 94V-0.

Benefits

- Axial leaded form factor
- Conformally coated
- Operating temperature range of -55°C to $+125^\circ\text{C}$
- Lead (Pb)-free, RoHS and REACH compliant
- DC voltage ratings of 25 V, 50 V, 100 V, 200 V and 250 V
- Capacitance offerings ranging from 1.0 pF up to 0.1 μF
- Available capacitance tolerances of $\pm 0.5\text{ pF}$, $\pm 1\%$, $\pm 2\%$, $\pm 5\%$, and 10%
- Extremely low ESR and ESL
- High thermal stability
- High ripple current capability



Ordering Information

C	410	C	472	J	5	G	5	T	A	7200
Ceramic	Style/Size	Specification/Series	Capacitance Code (pF)	Capacitance Tolerance ¹	Rated Voltage (VDC)	Dielectric	Design	Lead Finish ²	Failure Rate	Packaging (C-Spec)
	410 412 420 430 440	C = Standard	First two digits represent significant figures. Third digit specifies number of zeros.	D = $\pm 0.5\text{ pF}$ F = $\pm 1\%$ G = $\pm 2\%$ J = $\pm 5\%$ K = $\pm 10\%$	3 = 25 5 = 50 1 = 100 2 = 200 A = 250	G = COG	5 = Multilayer	T = 100% Matte Sn H = SnPb (60/40)	A = N/A	Blank = Bulk 7200 = 12" Reel 7293 = Ammo Pack

¹ Additional capacitance tolerance offerings may be available. Contact KEMET for details.

² Lead materials:

Standard: 100% matte tin (Sn) with nickel (Ni) underplate and steel core ("T" designation).

Alternative 1: 60% tin (Sn)/40% lead (Pb) finish with copper-clad steel core ("H" designation).

Alternative 2: 60% tin (Sn)/40% lead (Pb) finish with 100% copper core (available with "H" designation code with C-Spec).

Contact KEMET for C-Spec details.

Benefits cont.

- No capacitance change with respect to applied rated DC voltage
- Negligible capacitance change with respect to temperature from -55°C to +125°C
- No capacitance decay with time
- Non-polar device, minimizing installation concerns
- 100% pure matte tin-plated lead finish allowing for excellent solderability
- SnPb-plated lead finish option available upon request (Sn60/Pb40)
- Encapsulation meets flammability standard UL 94V-0

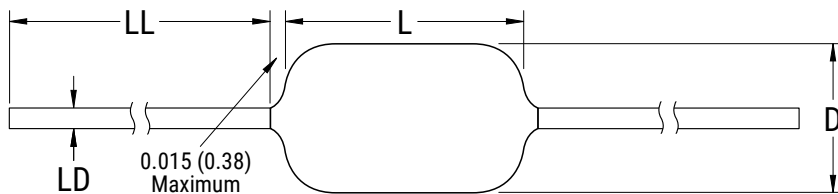
Applications

Typical applications include critical timing, tuning, circuits requiring low loss, circuits with pulse, high current, decoupling, bypass, filtering, transient voltage suppression, blocking and energy storage.

Application Notes

These devices are not recommended for use in overmold applications and/or processes.

Dimensions – Inches (Millimeters)



Series	Style/Size	L Length Maximum	D Diameter Maximum	LD Lead Diameter	LL Lead Length Minimum ¹
C41X	410	0.170 (4.32)	0.095 (2.41)	0.020+0.001/-0.003 (0.51+0.025/-0.076)	1.0 (25.4)
	412	0.170 (4.32)	0.120 (3.05)		
C42X	420	0.200 (5.08)	0.100 (2.54)		
C43X	430	0.240 (6.10)	0.150 (3.81)		
C44X	440	0.260 (6.60)	0.150 (3.81)		

¹ Lead Length dimension only applicable for BULK packaging.

Qualification/Certification

Commercial Grade products are subject to internal qualification. Details regarding test methods and conditions are referenced in Table 2, Performance & Reliability.

Environmental Compliance

Lead (Pb)-free, REACH and RoHS compliant without exemptions when ordered with a 100% tin (Sn) wire lead finish. Product ordered with tin/ lead (Sn60/Pb40) wire lead finish do not meet RoHS criteria.

Series	Termination Finish (Wire Lead)	RoHS Compliant	RoHS Exemption Code	REACH Compliant ¹	Halogen Free
400 (C4XX)	100% Matte Sn	Yes	n/a	Yes	Yes
	Sn60/Pb40	No	n/a	Yes	Yes

¹ REACH compliance indicates product does not contain Substance/s of Very High Concern (SVHC)

Electrical Parameters/Characteristics

Item	Parameters/Characteristics
Operating Temperature Range	-55°C to +125°C
Capacitance Change with Reference to +25°C and 0 VDC Applied (TCC)	±30 ppm/°C
Aging Rate (Maximum % Cap Loss/Decade Hour)	0%
Dielectric Withstanding Voltage	250% of rated voltage (5±1 seconds and charge/discharge not exceeding 50 mA at 25°C)
Dissipation Factor (DF) Maximum Limit at 25°C	0.1%
Insulation Resistance (IR) Limit at 25°C	1,000 megohm microfarads or 100 GΩ (Rated voltage applied for 120±5 seconds at 25°C)

To obtain IR limit, divide MQ-μF value by the capacitance and compare to GΩ limit. Select the lower of the two limits.

Capacitance and dissipation factor (DF) measured under the following conditions:

1 MHz ±100 kHz and 1.0 V_{rms} ±0.2V if capacitance ≤ 1,000 pF

1 kHz ±50 Hz and 1.0 V_{rms} ±0.2 V if capacitance > 1,000 pF

Note: When measuring capacitance it is important to ensure the set voltage level is held constant. The HP4284 and Agilent E4980 have a feature known as Automatic Level Control (ALC). The ALC feature should be switched to "ON."

Post Environmental Limits

High Temperature Life, Biased Humidity and Storage Life					
Style/Size	Rated DC Voltage	Capacitance Value	Dissipation Factor (Maximum %)	Capacitance Shift	Insulation Resistance
COG	All	All	0.5	0.3% or ±0.25 pF	10% of Initial Limit

Table 1A – C410 Style/Size, Capacitance Range Waterfall

C410 Style/Size (0.095" Diameter x 0.170" Length)						
Rated Voltage (VDC)		25	50	100	200	250
Voltage Code		3	5	1	2	A
Capacitance	Capacitance Tolerance	Capacitance Code (Available Capacitance)				
1pF	D = ±0.5pF	109	109	109	109	109
1.1pF		119	119	119	119	119
1.2pF		129	129	129	129	129
1.3pF		139	139	139	139	139
1.5pF		159	159	159	159	159
1.6pF		169	169	169	169	169
1.8pF		189	189	189	189	189
2.0pF		209	209	209	209	209
2.2pF		229	229	229	229	229
2.4pF		249	249	249	249	249
2.7pF		279	279	279	279	279
3.0pF		309	309	309	309	309
3.3pF		339	339	339	339	339
3.6pF		369	369	369	369	369
3.9pF		399	399	399	399	399
4.3pF		439	439	439	439	439
4.7pF		479	479	479	479	479
5.1pF		519	519	519	519	519
5.6pF		569	569	569	569	569
6.2pF		629	629	629	629	629
6.8pF	689	689	689	689	689	
7.5pF	759	759	759	759	759	
8.2pF	829	829	829	829	829	
9.1pF	919	919	919	919	919	
10pF	F = ±1% G = ±2% J = ±5% K = ±10%	100	100	100	100	100
11pF		110	110	110	110	110
12pF		120	120	120	120	120
13pF		130	130	130	130	130
15pF		150	150	150	150	150
16pF		160	160	160	160	160
18pF		180	180	180	180	180
20pF		200	200	200	200	200
22pF		220	220	220	220	220
24pF		240	240	240	240	240
27pF		270	270	270	270	270
30pF		300	300	300	300	300
33pF		330	330	330	330	330
36pF		360	360	360	360	360
39pF		390	390	390	390	390
43pF		430	430	430	430	430
47pF		470	470	470	470	470
51pF		510	510	510	510	510
56pF		560	560	560	560	560
62pF		620	620	620	620	620
68pF	680	680	680	680	680	
75pF	750	750	750	750	750	
82pF	820	820	820	820	820	
91pF	910	910	910	910	910	
100pF	101	101	101	101	101	
110pF	111	111	111	111	111	
120pF	121	121	121	121	121	
130pF	131	131	131	131	131	
150pF	151	151	151	151	151	
160pF	161	161	161	161	161	
180pF	181	181	181	181	181	
200pF	201	201	201	201	201	
Rated Voltage (VDC)		25	50	100	200	250
Voltage Code		3	5	1	2	A

These products are protected under one or more of the following United States Patents and their non-US counterparts: US Pat. No. 7172985; U.S. Pat. No. 7670981.

Table 1A – C410 Style/Size, Capacitance Range Waterfall cont.

C410 Style/Size (0.095" Diameter x 0.170" Length)						
Rated Voltage (VDC)		25	50	100	200	250
Voltage Code		3	5	1	2	A
Capacitance	Capacitance Tolerance	Capacitance Code (Available Capacitance)				
220pF	F = ±1% G = ±2% J = ±5% K = ±10%	221	221	221	221	221
240pF		241	241	241	241	241
270pF		271	271	271	271	271
300pF		301	301	301	301	301
330pF		331	331	331	331	331
360pF		361	361	361	361	361
390pF		391	391	391	391	391
430pF		431	431	431	431	431
470pF		471	471	471	471	471
510pF		511	511	511	511	511
560pF		561	561	561	561	561
620pF		621	621	621	621	621
680pF		681	681	681	681	681
750pF		751	751	751	751	751
820pF		821	821	821	821	821
910pF		911	911	911	911	911
1000pF		102	102	102	102	102
1100pF		112	112	112	112	112
1200pF		122	122	122	122	122
1300pF		132	132	132	132	132
1500pF		152	152	152	152	152
1600pF		162	162	162	162	162
1800pF		182	182	182	182	182
2000pF		202	202	202	202	202
2200pF		222	222	222	222	222
2400pF		242	242	242	242	242
2700pF		272	272	272	272	272
3000pF		302	302	302	302	302
3300pF		332	332	332	332	332
3600pF		362	362	362	362	362
3900pF		392	392	392	392	392
4300pF		432	432	432	432	432
4700pF		472	472	472	472	472
5100pF		512	512	512	512	512
5600pF		562	562	562	562	562
6200pF		622	622	622	622	622
6800pF		682	682	682	682	682
7500pF		752	752	752	752	752
8200pF		822	822	822	822	822
9100pF		912	912	912		
0.01µF		103	103	103		
0.012µF		123	123	123		
0.015µF		153	153	153		
0.018µF		183	183			
0.022µF		223	223			
0.027µF		273				
0.033µF		333				
0.039µF	393					
0.047µF	473					
Rated Voltage (VDC)		25	50	100	200	250
Voltage Code		3	5	1	2	A

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Table 1B – C412 Style/Size, Capacitance Range Waterfall

C412 Style/Size (0.120" Diameter x 0.170" Length)			
Rated Voltage (VDC)		50	100
Voltage Code		5	1
Capacitance	Capacitance Tolerance	Capacitance Code (Available Capacitance)	
1100pF	F = ±1% G = ±2% J = ±5% K = ±10%	112	112
1200pF		122	122
1300pF		132	132
1500pF		152	152
1600pF		162	162
1800pF		182	182
2000pF		202	202
2200pF		222	222
2400pF		242	242
2700pF		272	272
Rated Voltage (VDC)		50	100
Voltage Code		5	1

These products are protected under one or more of the following United States Patents and their non-US counterparts: US Pat. No. 7172985; U.S. Pat. No. 7670981.

Table 1C – C420 Style/Size, Capacitance Range Waterfall

C420 Style/Size (0.100" Diameter x 0.200" Length)						
Rated Voltage (VDC)		25	50	100	200	250
Voltage Code		3	5	1	2	A
Capacitance	Capacitance Tolerance	Capacitance Code (Available Capacitance)				
390pF	F = ±1% G = ±2% J = ±5% K = ±10%	391	391	391	391	391
430pF		431	431	431	431	431
470pF		471	471	471	471	471
510pF		511	511	511	511	511
560pF		561	561	561	561	561
620pF		621	621	621	621	621
680pF		681	681	681	681	681
750pF		751	751	751	751	751
820pF		821	821	821	821	821
910pF		911	911	911	911	911
1000pF		102	102	102	102	102
1100pF		112	112	112	112	112
1200pF		122	122	122	122	122
1300pF		132	132	132	132	132
1500pF		152	152	152	152	152
1600pF		162	162	162	162	162
1800pF		182	182	182	182	182
2000pF		202	202	202	202	202
2200pF		222	222	222	222	222
2400pF		242	242	242	242	242
2700pF		272	272	272	272	272
3000pF		302	302	302	302	302
3300pF		332	332	332	332	332
3600pF		362	362	362	362	362
3900pF		392	392	392	392	392
4300pF		432	432	432	432	432
4700pF		472	472	472	472	472
5100pF		512	512	512	512	512
5600pF		562	562	562	562	562
6200pF		622	622	622	622	622
6800pF		682	682	682	682	682
7500pF		752	752	752	752	752
8200pF		822	822	822	822	822
9100pF		912	912	912	912	912
0.01µF		103	103	103	103	103
0.012µF		123	123	123	123	123
0.015µF		153	153	153	153	153
0.016µF		163	163	163		
0.018µF		183	183	183		
0.022µF		223	223	223		
0.027µF	273	273	273			
0.033µF	333	333	333			
0.039µF	393	393				
0.047µF	473	473				
0.056µF	563	563				
Rated Voltage (VDC)		25	50	100	200	250
Voltage Code		3	5	1	2	A

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Table 1D – C430 Style/Size, Capacitance Range Waterfall

C430 Style/Size (0.150" Diameter x 0.240" Length)							
Rated Voltage (VDC)		25	50	100	200	250	
Voltage Code		3	5	1	2	A	
Capacitance	Capacitance Tolerance	Capacitance Code (Available Capacitance)					
1800pF	F = ±1% G = ±2% J = ±5% K = ±10%	182	182	182	182	182	
2000pF		202	202	202	202	202	
2200pF		222	222	222	222	222	
2400pF		242	242	242	242	242	
2700pF		272	272	272	272	272	
3000pF		302	302	302	302	302	
3300pF		332	332	332	332	332	
3600pF		362	362	362	362	362	
3900pF		392	392	392	392	392	
4300pF		432	432	432	432	432	
4700pF		472	472	472	472	472	
5100pF		512	512	512	512	512	
5600pF		562	562	562	562	562	
6200pF		622	622	622	622	622	
6800pF		682	682	682	682	682	
7500pF		752	752	752	752	752	
8200pF		822	822	822	822	822	
9100pF		912	912	912	912	912	
0.01μF		103	103	103	103	103	
0.012μF		123	123	123	123	123	
0.015μF		153	153	153	153	153	
0.018μF		183	183	183	183	183	
0.022μF		223	223	223	223	223	
0.027μF		273	273	273			
0.033μF		333	333	333			
0.039μF		393	393	393			
0.047μF		473	473	473			
0.056μF		563	563				
0.068μF		683	683				
0.082μF		823	823				
0.100μF		104					
Rated Voltage (VDC)		25	50	100	200	250	
Voltage Code		3	5	1	2	A	

These products are protected under one or more of the following United States Patents and their non-US counterparts: US Pat. No. 7172985; U.S. Pat. No. 7670981.

Table 1E – C440 Style/Size, Capacitance Range Waterfall

C440 Style/Size (0.150" Diameter x 0.260" Length)			
Rated Voltage (VDC)		50	100
Voltage Code		5	1
Capacitance	Capacitance Tolerance	Capacitance Code (Available Capacitance)	
5600pF	F = ±1% G = ±2% J = ±5% K = ±10%	562	562
6200pF		622	622
6800pF		682	682
7500pF		752	752
8200pF		822	822
9100pF		912	912
0.01µF		103	103
0.012µF		123	123
0.015µF		153	153
0.015µF		153	153
Rated Voltage (VDC)		50	100
Voltage Code		5	1

These products are protected under one or more of the following United States Patents and their non-US counterparts: US Pat. No. 7172985; U.S. Pat. No. 7670981.

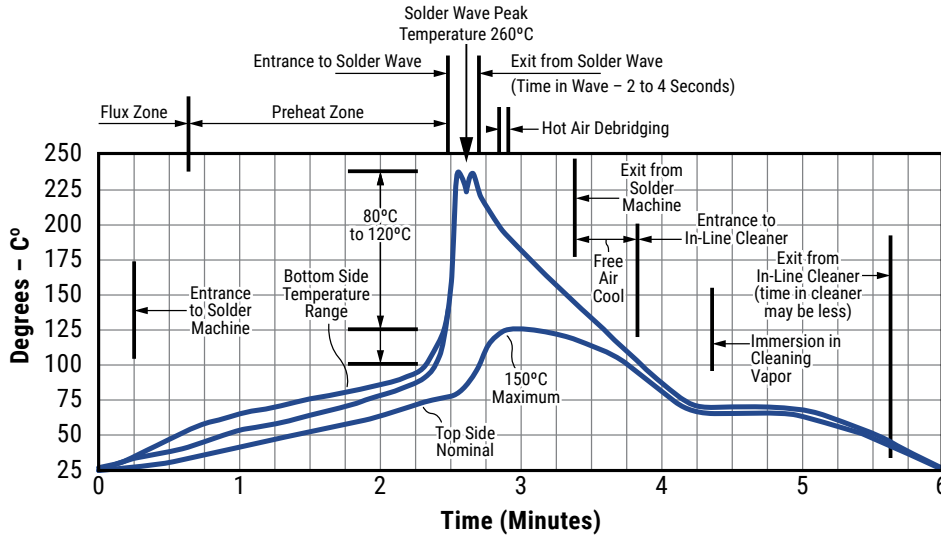
Soldering Process

Recommended Soldering Methods:

- Solder Wave
- Hand Soldering (Manual)

Recommended Soldering Profile:

- Optimum Wave Solder Profile



Mounting

All enclosed capacitors will pass the Resistance to Soldering Heat of MIL-STD-202, Method 210, Condition C. This test simulates wave solder topside board mount product. This demonstration of resistance to solder heat is in accordance with what is believed to be the industry standard. More severe treatment must be considered reflective of an improper soldering process.

The above figure is a recommended solder wave profile for both axial and radial leaded ceramic capacitors.

- Hand Soldering (Manual)

Manual Solder Profile with Pre-heating

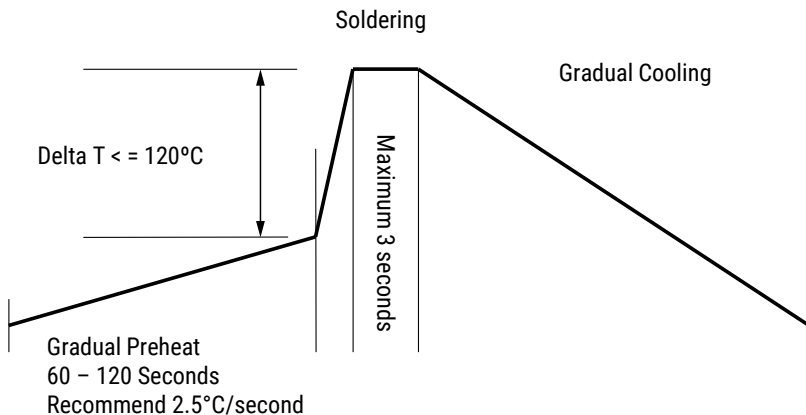


Table 2 – Performance & Reliability: Test Methods and Conditions

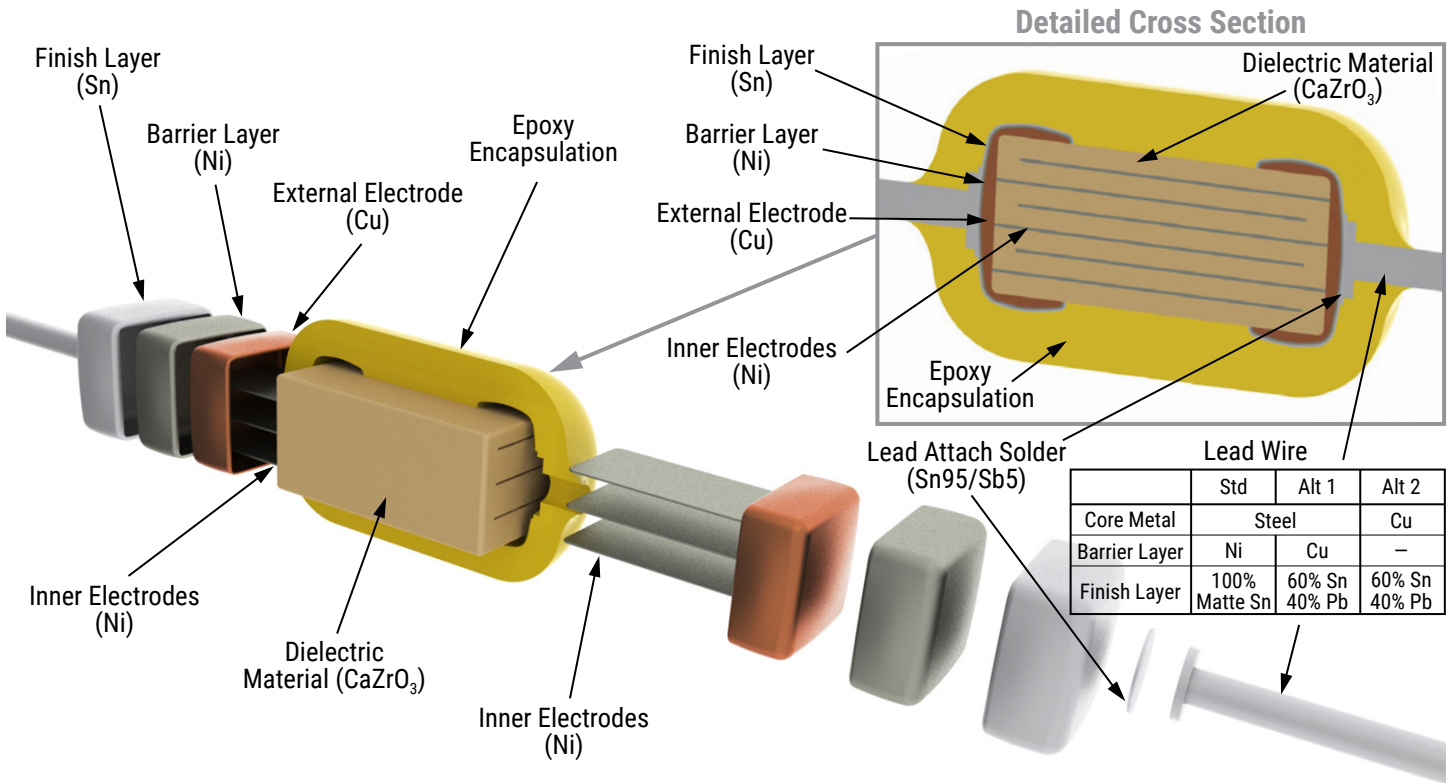
Stress	Reference	Test or Inspection Method
Solderability	J-STD-002	Magnification 50X. Conditions: a) Method A, at 235°C, Category 3
Temperature Cycling	JESD22 Method JA-104	5 cycles (-55°C to +125°C), measurement at 24 hours ±4 hours after test conclusion.
Biased Humidity	MIL-STD-202 Method 103	Load humidity, 1,000 hours 85°C/85%RH and rated voltage. Add 100 K ohm resistor. Measurement at 24 hours ±4 hours after test conclusion.
		Low volt humidity, 1,000 hours 85°C/85%RH and 1.5 V. Add 100 K ohm resistor. Measurement at 24 hours ±4 hours after test conclusion.
Moisture Resistance	MIL-STD-202 Method 106	t = 24 hours/cycle. Steps 7a and 7b not required. Unpowered. Measurement at 24 hours ±4 hours after test conclusion.
Thermal Shock	MIL-STD-202 Method 107	-55°C to +125°C. Note: Number of cycles required = 300. Maximum transfer time = 20 seconds. Dwell time – 15 minutes. Air – Air.
High Temperature Life	MIL-STD-202 Method 108/EIA -198	1,000 hours at 125°C (85°C for Z5U) with 1 X rated voltage applied.
Storage Life	MIL-STD-202 Method 108	125°C, 0 VDC for 1,000 hours.
Vibration	MIL-STD-202 Method 204	5 g for 20 minutes, 12 cycles each of 3 orientations. Note: Use 8"X5" PCB .031" thick 7 secure points on one long side and 2 secure points at corners of opposite sides. Parts mounted within 2" from any secure point. Test from 10 - 2,000 Hz.
Resistance to Soldering Heat	MIL-STD-202 Method 210	Condition B. No preheat of samples. Note: single wave solder – procedure 2.
Terminal Strength	MIL-STD-202 Method 211	Conditions A (454g), Condition C (227g)
Mechanical Shock	MIL-STD-202 Method 213	Figure 1 of Method 213, Condition C.
Resistance to Solvents	MIL-STD-202 Method 215	Add aqueous wash chemical – OKEM Clean or equivalent.

Storage & Handling

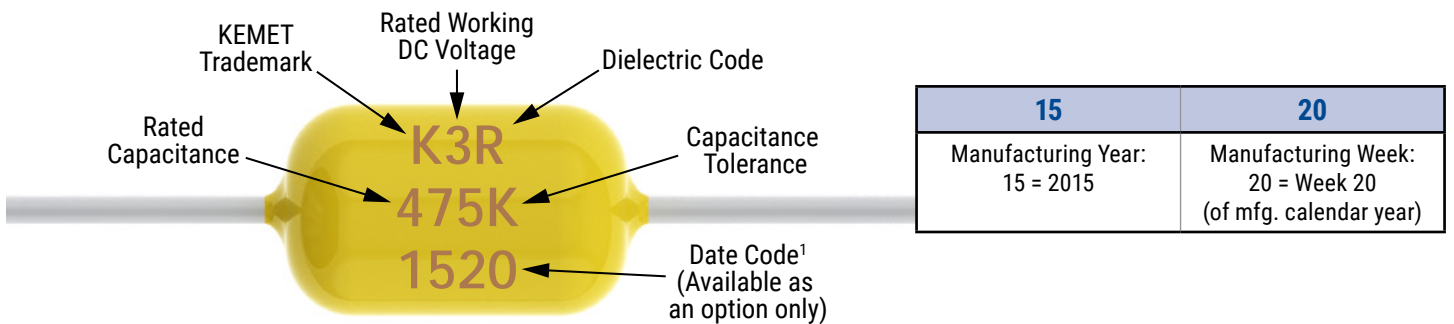
The un-mounted storage life of a leaded ceramic capacitor is dependent upon storage and atmospheric conditions as well as packaging materials. While the ceramic chips enveloped under the epoxy coating themselves are quite robust in most environments, solderability of the wire lead on the final epoxy-coated product will be degraded by exposure to high temperatures, high humidity, corrosive atmospheres, and long term storage. In addition, packaging materials will be degraded by high temperature and exposure to direct sunlight—reels may soften or warp, and tape peel force may increase.

KEMET recommends storing the un-mounted capacitors in their original packaging, in a location away from direct sunlight, and where the temperature and relative humidity do not exceed 40 degrees centigrade and 70% respectively. For optimum solderability, capacitor stock should be used promptly, preferably within 18 months of receipt. For applications requiring pre-tinning of components, storage life may be extended if solderability is verified. Before cleaning, bonding or molding these devices, it is important to verify that your process does not affect product quality and performance. KEMET recommends testing and evaluating the performance of a cleaned, bonded or molded product prior to implementing and/or qualifying any of these processes.

Construction



Marking



¹ To properly request the inclusion of the date code in the marking, ordering code please contact your KEMET representative.

Packaging Quantities

Style/Size	Standard Bulk Quantity	Ammo Pack Quantity Maximum	Reel Quantity Maximum (12" Reel)
410	300/Box	4000	5000
412	200/Box		
420	300/Box		
430	200/Box	2000	2500
440	200/Box		

Tape & Reel Packaging Information

KEMET offers standard reeling of molded and conformally coated axial leaded ceramic capacitors for automatic insertion or lead forming machines in accordance with EIA standard 296. KEMET’s internal specification four-digit suffix, 7200, is placed at the end of the part number to designate tape and reel packaging, e.g., C410C104Z5U5TA7200.

Paper (50 lb.) test minimum is inserted between the layers of capacitors wound on reels for component pitch $\leq 0.400"$. Capacitor lead length may extend only a maximum of $.0625"$ (1.59 mm) beyond the tapes’ edges. Capacitors are centered in a row between the two tapes and will deviate only $\pm 0.031"$ (0.79 mm) from the row center. A minimum of 36" (91.5 cm) leader tape is provided at each finished length of taped components. Universal splicing clips are used to connect the tape.

Figure 1

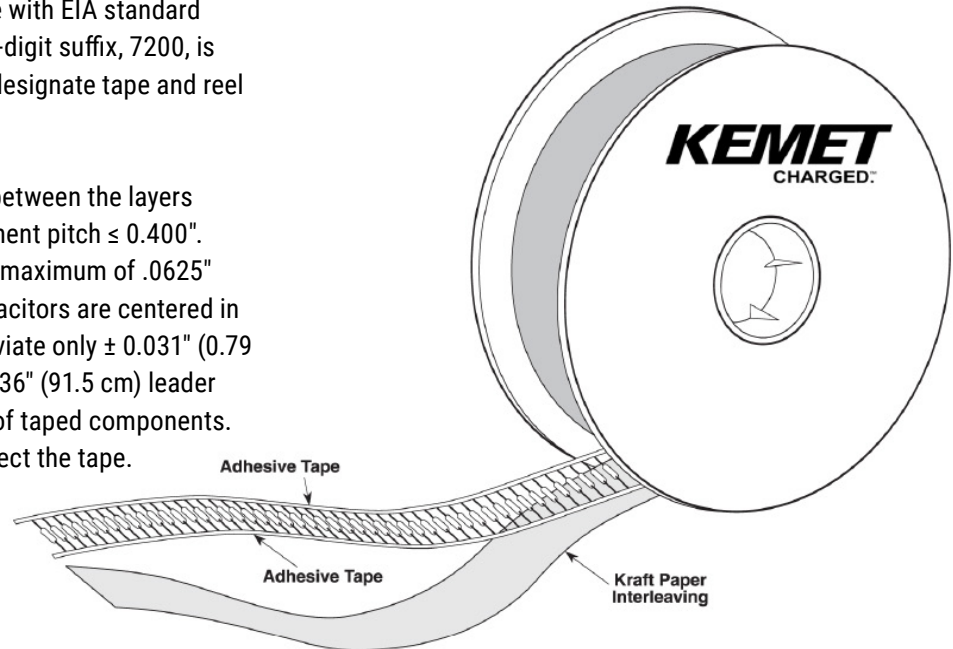


Figure 2

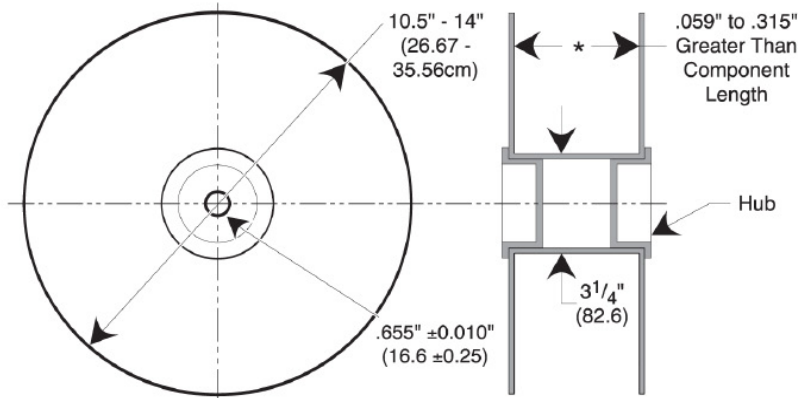


Figure 3

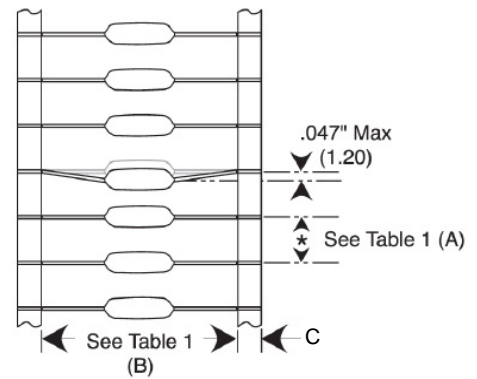


Table 3 – Ceramic Axial Tape and Reel Dimensions

Metric will govern

Dimensions – Millimeters (Inches)			
Axial Capacitor Body Diameter	A	B	C
	± 0.5 (0.020)	± 1.5 (0.059) ¹	± 0.70 (0.028)
0.0 to 5.0 (0.0 to 0.197)	5.0 (0.197)	52.4 (2.062)	6.35 (0.250)

Symbol Reference Table	
A	Component Pitch
B	Inside Tape Spacing
C	Tape Width

¹ Inside tape spacing dimension (B) is determined by the body diameter of the capacitor.

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