

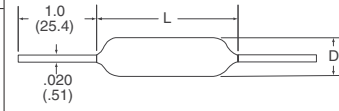


Ceramic Conformally Coated Axial Leaded Capacitors "AXIMAX"

The "Aximax" series of multi-layer ceramic capacitors starts with a capacitor element that consists of formulated dielectric materials which have been cast into thin layers, interspersed with metal electrodes alternately exposed on opposite edges of the laminated structure. The entire structure is fired at high temperature to produce a monolithic block, which provides high capacitance values in a small physical volume. After firing, conductive terminations are applied to opposite ends of the chip to make contact with the exposed electrodes.

KEMET leaded ceramic capacitors are offered in the three most popular temperature characteristics: **C0G:** Class 1, with a temperature coefficient of $0 \pm 30\text{ppm}$ per degree C over an operating temperature range of $-55^\circ\text{C} - 125^\circ\text{C}$ (Also known as "NPO"). **X7R:** Class II, with a maximum capacitance change of $\pm 15\%$ over an operating temperature range of $-55^\circ\text{C} - 125^\circ\text{C}$. **Z5U:** Class III, with a maximum capacitance change of $22\% - 56\%$ over an operating temperature range of $10^\circ\text{C} - 85^\circ\text{C}$.

Style	L Max. Inch (mm)	D Max. Inch (mm)
C410	.170 (4.32)	.100 (2.54)
C412	.170 (4.32)	.120 (3.05)
C420	.260 (6.60)	.100 (2.54)
C430	.290 (7.37)	.150 (3.81)
C440	.400 (10.16)	.150 (3.81)



F

Dielectric	Voltage	Cap.	Cap. Tol.(%)	Size Code	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Kemet Part No.	
						1	100	1,000		Qty.	Pricing		
C0G	100	15pF	± 5	410	399-1807-1-ND	.29	2.79	20.18	139.73	—	—	C410C150J1G5CA7200	
		68pF	± 5	410	399-1811-1-ND	.29	2.79	20.18	139.73	—	—	C410C680J1G5CA7200	
		1500pF	± 5	420	399-1819-1-ND	.44	4.14	29.90	207.00	—	—	C420C152J1G5CA7200	
		6800pF	± 5	430	399-1823-1-ND	1.02	9.63	69.52	481.28	399-1823-2-ND	2,500	320.86/M	C430C682J1G5CA7200
		680pF	± 5	410	399-1826-1-ND	.30	2.85	20.57	142.43	—	—	C410C681J5G5CA7200	
	50	1500pF	± 5	412	399-1828-1-ND	.46	4.35	31.40	217.35	399-1828-2-ND	5,000	144.90/M	C412C152J5G5CA7200
		1500pF	± 5	420	399-1830-1-ND	.46	4.35	31.40	217.35	399-1830-2-ND	5,000	144.90/M	C420C152J5G5CA7200
		2200pF	± 5	420	399-1831-1-ND	.46	4.35	31.40	217.35	399-1831-2-ND	5,000	145.00/M	C420C222J5G5CA7200
		3300pF	± 5	430	399-1832-1-ND	.85	8.02	57.95	401.18	399-1832-2-ND	2,500	267.46/M	C430C332J5G5CA7200
		4700pF	± 5	430	399-1833-1-ND	.85	8.02	57.95	401.18	—	—	—	C430C472J5G5CA7200
X7R	100	680pF	± 10	410	399-1838-1-ND	.22	2.13	15.37	106.43	399-1838-2-ND	5,000	70.95/M	C410C681K1R5CA7200
		1500pF	± 10	410	399-1840-1-ND	.22	2.13	15.37	106.43	399-1840-2-ND	5,000	70.95/M	C410C152K1R5CA7200
		3300pF	± 10	410	399-1842-1-ND	.22	2.13	15.37	106.43	399-1842-2-ND	5,000	70.95/M	C410C332K1R5CA7200
		.015 μ F	± 10	412	399-1846-1-ND	.26	2.48	17.88	123.75	399-1846-2-ND	5,000	82.50/M	C412C153K1R5CA7200
		.015 μ F	± 10	420	399-1848-1-ND	.26	2.48	17.88	123.75	—	—	—	C420C153K1R5CA7200
	50	.022 μ F	± 10	420	399-1849-1-ND	.37	3.47	25.03	173.25	399-1849-2-ND	5,000	115.50/M	C420C223K1R5CA7200
		.068 μ F	± 10	430	399-1852-1-ND	.65	6.14	44.33	306.90	399-1852-2-ND	2,500	204.60/M	C430C683K1R5CA7200
		.15 μ F	± 10	440	399-1854-1-ND	.96	9.11	65.78	455.40	399-1854-2-ND	2,500	303.60/M	C440C154K1R5CA7200
		.015 μ F	± 10	410	399-1856-1-ND	.29	2.72	19.66	136.13	—	—	—	C410C153K5R5CA7200
		.068 μ F	± 10	420	399-1862-1-ND	.31	2.97	21.45	148.50	—	—	—	C420C683K5R5CA7200
Z5U	100	.015 μ F	± 20	410	399-1869-1-ND	.19	1.83	13.23	91.58	399-1869-2-ND	5,000	61.05/M	C410C153M1U5CA7200
		.022 μ F	± 20	410	399-1870-1-ND	.19	1.83	13.23	91.58	—	—	—	C410C223M1U5CA7200
		.033 μ F	± 20	420	399-1871-1-ND	.30	2.87	20.74	143.55	399-1871-2-ND	5,000	95.70/M	C420C333M1U5CA7200
		.068 μ F	± 20	430	399-1873-1-ND	.52	4.95	35.75	247.50	399-1873-2-ND	2,500	165.00/M	C430C683M1U5CA7200
		.22 μ F	± 20	440	399-1876-1-ND	.57	5.45	39.33	272.25	—	—	—	C440C224M1U5CA7200
	50	.033 μ F	± 20	410	399-1877-1-ND	.18	1.68	12.16	84.15	—	—	—	C410C333M5U5CA7200
		.068 μ F	± 20	410	399-1879-1-ND	.18	1.68	12.16	84.15	—	—	—	C410C683M5U5CA7200
		.15 μ F	± 20	410	399-1881-1-ND	.26	2.48	17.88	123.75	399-1881-2-ND	5,000	82.50/M	C410C154M5U5CA7200
		.33 μ F	± 20	420	399-1884-1-ND	.40	3.81	27.53	190.58	—	—	—	C420C334M5U5CA7200
		.68 μ F	± 20	430	399-1886-1-ND	.65	6.19	44.69	309.38	—	—	—	C430C684M5U5CA7200

RoHS Compliant

C0G	100	10pF	± 5	410	399-4446-1-ND	.29	2.79	20.18	139.73	399-4446-2-ND	5,000	93.00/M	C410C100J1G5TA7200
		15pF	± 5	410	399-4455-1-ND	.29	2.79	20.18	139.73	399-4455-2-ND	5,000	93.00/M	C410C150J1G5TA7200
		22pF	± 5	410	399-4461-1-ND	.29	2.79	20.18	139.73	399-4461-2-ND	5,000	93.00/M	C410C220J1G5TA7200
		33pF	± 5	410	399-4467-1-ND	.29	2.79	20.18	139.73	399-4467-2-ND	5,000	93.00/M	C410C330J1G5TA7200
		47pF	± 5	410	399-4472-1-ND	.29	2.79	20.18	139.73	399-4472-2-ND	5,000	93.00/M	C410C470J1G5TA7200
		68pF	± 5	410	399-4478-1-ND	.29	2.79	20.18	139.73	399-4478-2-ND	5,000	93.00/M	C410C680J1G5TA7200
		100pF	± 5	410	399-4447-1-ND	.26	2.48	17.94	124.20	399-4447-2-ND	5,000	83.00/M	C410C101J1G5TA7200
		150pF	± 5	410	399-4456-1-ND	.29	2.79	20.18	139.73	399-4456-2-ND	5,000	93.00/M	C410C151J1G5TA7200
		220pF	± 5	410	399-4462-1-ND	.29	2.79	20.18	139.73	399-4462-2-ND	5,000	93.00/M	C410C221J1G5TA7200
		330pF	± 5	410	399-4468-1-ND	.29	2.79	20.18	139.73	399-4468-2-ND	5,000	93.00/M	C410C331J1G5TA7200
		680pF	± 5	410	399-4479-1-ND	.29	2.79	20.18	139.73	399-4479-2-ND	5,000	93.00/M	C410C681J1G5TA7200
		470pF	± 5	410	399-4473-1-ND	.29	2.79	20.18	139.73	399-4473-2-ND	5,000	93.00/M	C410C471J1G5TA7200
		1000pF	± 5	410	399-4448-1-ND	.27	2.59	18.69	129.38	399-4448-2-ND	5,000	86.00/M	C410C102J1G5TA7200
		1500pF	± 5	420	399-4492-1-ND	.44	4.14	29.90	207.00	399-4492-2-ND	5,000	138.00/M	C420C152J1G5TA7202
		2200pF	± 5	420	399-4495-1-ND	.46	4.35	31.40	217.35	399-4495-2-ND	5,000	145.00/M	C420C222J1G5TA7202
		3300pF	± 5	430	399-1821-1-ND	.75	7.14	51.58	357.08	—	—	—	C430C332J1G5CA7200
		3300pF	± 5	430	399-4508-1-ND	.75	7.14	51.58	357.08	399-4508-2-ND	2,500	238.00/M	C430C332J1G5TA7200
		4700pF	± 5	430	399-4510-1-ND	.75	7.14	51.58	357.08	399-4510-2-ND	2,500	238.00/M	C430C472J1G5TA7200
		6800pF	± 5	430	399-4514-1-ND	1.02	9.63	69.52	481.28	399-4514-2-ND	2,500	321.00/M	C430C682J1G5TA7200
		.01 μ F	± 5	440	399-4519-1-ND	1.17	11.13	80.37	556.43	399-4519-2-ND	2,500	371.00/M	C440C103J1G5TA7200
		.015 μ F	± 5	440	399-1825-1-ND	1.17	11.13	80.37	556.43	—	—	—	C440C153J1G5CA7200
		.015 μ F	± 5	440	399-4522-1-ND	1.17	11.13	80.37	556.43	399-4522-2-ND	2,500	371.00/M	C440C153J1G5TA7200

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Ceramic Conformally Coated Axial Leaded Capacitors "AXIMAX" (Cont.)

Dielectric	Voltage	Cap.	Cap. Tol.(%)	Size Code	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Kemet Part No.			
						1	10	1,000		Qty.	Pricing				
C0G	50	680pF	±5	410	399-4480-1-ND	.30	2.85	20.57	142.43	399-4480-2-ND	5,000	95.00/M	C410C681J5G5TA7200		
		1000pF	±5	410	399-4449-1-ND	.27	2.59	18.69	129.38	399-4449-2-ND	5,000	86.00/M	C410C102J5G5TA7200		
		1000pF	±5	410	399-1827-1-ND	.27	2.59	18.69	129.38	—	—	—	C410C102J5G5CA7200		
		1500pF	±5	412	399-4485-1-ND	.46	4.35	31.40	217.35	399-4485-2-ND	5,000	145.00/M	C412C152J5G5TA7200		
		2200pF	±5	412	399-4487-1-ND	.46	4.35	31.40	217.35	399-4487-2-ND	5,000	145.00/M	C412C222J5G5TA7200		
		1500pF	±5	420	399-4493-1-ND	.46	4.35	31.40	217.35	399-4493-2-ND	5,000	145.00/M	C420C152J5G5TA7200		
		2200pF	±5	420	399-4496-1-ND	.46	4.35	31.40	217.35	399-4496-2-ND	5,000	145.00/M	C420C222J5G5TA7200		
		3300pF	±5	430	399-4509-1-ND	.85	8.02	57.95	401.18	399-4509-2-ND	2,500	267.00/M	C430C332J5G5TA7200		
		4700pF	±5	430	399-4511-1-ND	.85	8.02	57.95	401.18	399-4511-2-ND	2,500	267.00/M	C430C472J5G5TA7200		
		6800pF	±5	430	399-4515-1-ND	.85	8.02	57.95	401.18	399-4515-2-ND	2,500	267.00/M	C430C682J5G5TA7200		
		.01µF	±5	440	399-4520-1-ND	1.17	11.13	80.37	556.43	399-4520-2-ND	2,500	371.00/M	C440C103J5G5TA7200		
		.015µF	±5	440	399-4523-1-ND	1.44	13.66	98.67	683.10	399-4523-2-ND	2,500	455.00/M	C440C153J5G5TA7200		
		.015µF	±5	440	399-1836-1-ND	1.44	13.66	98.67	683.10	399-1836-2-ND	2,500	455.40/M	C440C153J5G5CA7200		
		X7R	100	470pF	±10	410	399-4474-1-ND	.22	2.13	15.37	106.43	399-4474-2-ND	5,000	71.00/M	C410C471K1R5TA7200
				680pF	±10	410	399-4481-1-ND	.22	2.13	15.37	106.43	399-4481-2-ND	5,000	71.00/M	C410C681K1R5TA7200
1000pF	±10			410	399-4450-1-ND	.21	1.98	14.30	99.00	399-4450-2-ND	5,000	66.00/M	C410C102K1R5TA7200		
1500pF	±10			410	399-4457-1-ND	.22	2.13	15.37	106.43	399-4457-2-ND	5,000	71.00/M	C410C152K1R5TA7200		
2200pF	±10			410	399-4463-1-ND	.22	2.13	15.37	106.43	399-4463-2-ND	5,000	71.00/M	C410C222K1R5TA7200		
3300pF	±10			410	399-4469-1-ND	.22	2.13	15.37	106.43	399-4469-2-ND	5,000	71.00/M	C410C332K1R5TA7200		
4700pF	±10			410	399-4475-1-ND	.22	2.13	15.37	106.43	399-4475-2-ND	5,000	71.00/M	C410C472K1R5TA7200		
6800pF	±10			410	399-4482-1-ND	.22	2.13	15.37	106.43	399-4482-2-ND	5,000	71.00/M	C410C682K1R5TA7200		
.01µF	±10			410	399-4451-1-ND	.18	1.68	12.16	84.15	399-4451-2-ND	5,000	56.00/M	C410C103K1R5TA7200		
.015µF	±10			412	399-4486-1-ND	.26	2.48	17.88	123.75	399-4486-2-ND	5,000	83.00/M	C412C153K1R5TA7200		
.022µF	±10			412	399-4488-1-ND	.33	3.17	22.88	158.40	399-4488-2-ND	5,000	106.00/M	C412C223K1R5TA7200		
.015µF	±10			420	399-4494-1-ND	.26	2.48	17.88	123.75	399-4494-2-ND	5,000	83.00/M	C420C153K1R5TA7200		
.022µF	±10			420	399-4497-1-ND	.37	3.47	25.03	173.25	399-4497-2-ND	5,000	116.00/M	C420C223K1R5TA7200		
.033µF	±10			420	399-4498-1-ND	.37	3.47	25.03	173.25	399-4498-2-ND	5,000	116.00/M	C420C333K1R5TA7200		
.047µF	±10			430	399-4512-1-ND	.47	4.46	32.18	222.75	399-4512-2-ND	2,500	149.00/M	C430C473K1R5TA7200		
.1µF	±10		430	399-4503-1-ND	.52	4.95	35.75	247.50	399-4503-2-ND	2,500	165.00/M	C430C104K1R5TA7200			
.068µF	±10		430	399-4516-1-ND	.65	6.14	44.33	306.90	399-4516-2-ND	2,500	205.00/M	C430C683K1R5TA7200			
.15µF	±10		440	399-4524-1-ND	.96	9.11	65.78	455.40	399-4524-2-ND	2,500	304.00/M	C440C154KR15TA7200			
50	.01µF		±10	410	399-4452-1-ND	.17	1.58	11.44	79.20	399-4452-2-ND	5,000	53.00/M	C410C103K5R5TA7200		
	.015µF		±10	410	399-4458-1-ND	.29	2.72	19.66	136.13	399-4458-2-ND	5,000	91.00/M	C410C153K5R5TA7200		
	.022µF		±10	410	399-4464-1-ND	.29	2.72	19.66	136.13	399-4464-2-ND	5,000	91.00/M	C410C223K5R5TA7200		
	.033µF		±10	410	399-4470-1-ND	.29	2.72	19.66	136.13	399-4470-2-ND	5,000	91.00/M	C410C333K5R5TA7200		
	.047µF		±10	410	399-4476-1-ND	.31	2.97	21.45	148.50	399-4476-2-ND	5,000	99.00/M	C410C473K5R5TA7200		
	.068µF		±10	412	399-4490-1-ND	.31	2.97	21.45	148.50	399-4490-2-ND	5,000	99.00/M	C412C683K5R5TA7200		
	.1µF		±10	412	399-4484-1-ND	.20	1.88	13.59	94.05	399-4484-2-ND	5,000	63.00/M	C412C104K5R5TA7200		
	.068µF		±10	420	399-4502-1-ND	.31	2.97	21.45	148.50	399-4502-2-ND	5,000	99.00/M	C420C683K5R5TA7200		
	.1µF		±10	420	399-4491-1-ND	.20	1.88	13.59	94.05	399-4491-2-ND	5,000	63.00/M	C420C104K5R5TA7200		
	.15µF		±10	430	399-4505-1-ND	.65	6.14	44.33	306.90	399-4505-2-ND	2,500	205.00/M	C430C154K5R5TA7200		
	.22µF		±10	430	399-4507-1-ND	.96	9.11	65.78	455.40	399-4507-2-ND	2,500	304.00/M	C430C224K5R5TA7200		
	.33µF		±10	440	399-4526-1-ND	1.06	10.00	72.22	499.95	399-4526-2-ND	2,500	333.00/M	C440C334K5R5TA7200		
	.47µF	±10	440	399-4527-1-ND	1.57	14.85	107.25	742.50	399-4527-2-ND	2,500	495.00/M	C440C474K5R5TA7200			
	Z5U	100	.01µF	±20	410	399-4453-1-ND	.14	1.29	9.30	64.35	399-4453-2-ND	5,000	43.00/M	C410C103M1U5TA7200	
			.015µF	±20	410	399-4459-1-ND	.19	1.83	13.23	91.58	399-4459-2-ND	5,000	61.00/M	C410C153M1U5TA7200	
.022µF			±20	410	399-4465-1-ND	.19	1.83	13.23	91.58	399-4465-2-ND	5,000	61.00/M	C410C223M1U5TA7200		
.033µF			±20	420	399-4499-1-ND	.30	2.87	20.74	143.55	399-4499-2-ND	5,000	96.00/M	C420C333M1U5TA7200		
.047µF			±20	420	399-4501-1-ND	.30	2.87	20.74	143.55	399-4501-2-ND	5,000	96.00/M	C420C473M1U5TA7200		
.068µF			±20	430	399-4517-1-ND	.52	4.95	35.75	247.50	399-4517-2-ND	2,500	165.00/M	C430C683M1U5TA7200		
.1µF			±20	430	399-4504-1-ND	.34	3.22	23.24	160.88	399-4504-2-ND	2,500	107.00/M	C430C104M1U5TA7200		
.15µF			±20	430	399-4506-1-ND	.57	5.45	39.33	272.25	399-4506-2-ND	2,500	182.00/M	C430C154M1U5TA7200		
.22µF			±20	440	399-4525-1-ND	.57	5.45	39.33	272.25	399-4525-2-ND	2,500	182.00/M	C440C224M1U5TA7200		
50		.033µF	±20	410	399-4471-1-ND	.18	1.68	12.16	84.15	399-4471-2-ND	5,000	56.00/M	C410C333M5U5TA7200		
		.047µF	±20	410	399-4477-1-ND	.18	1.68	12.16	84.15	399-4477-2-ND	5,000	56.00/M	C410C473M5U5TA7200		
		.068µF	±20	410	399-4483-1-ND	.18	1.68	12.16	84.15	399-4483-2-ND	5,000	56.00/M	C410C683M5U5TA7200		
		.1µF	±20	410	399-4454-1-ND	.13	1.19	8.58	59.40	399-4454-2-ND	5,000	40.00/M	C410C104M5U5TA7200		
		.15µF	±20	410	399-4460-1-ND	.26	2.48	17.88	123.75	399-4460-2-ND	5,000	83.00/M	C410C154M5U5TA7200		
		.22µF	±20	410	399-4466-1-ND	.26	2.48	17.88	123.75	399-4466-2-ND	5,000	83.00/M	C410C224M5U5TA7200		
		.33µF	±20	412	399-4489-1-ND	.40	3.81	27.53	190.58	399-4489-2-ND	5,000	127.00/M	C412C334M5U5TA7200		
		.33µF	±20	420	399-4500-1-ND	.40	3.81	27.53	190.58	399-4500-2-ND	5,000	127.00/M	C420C334M5U5TA7200		
		.47µF	±20	430	399-4513-1-ND	.65	6.19	44.69	309.38	399-4513-2-ND	2,500	206.00/M	C430C474M5U5TA7200		
.68µF	±20	430	399-4518-1-ND	.65	6.19	44.69	309.38	399-4518-2-ND	2,500	206.00/M	C430C684M5U5TA7200				
.4µF	±20	440	399-4521-1-ND	.84	7.92	57.20	396.00	399-4521-2-ND	2,500	264.00/M	C440C105M5U5TA7200				

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