

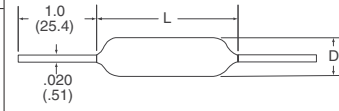


Ceramic Conformally Coated Axial Leaded Capacitors "AXIMAX"

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 ± 30ppm per degree C over an operating temperature range of -55°C - 125°C (Also known as "NP0"). **X7R:** Class II, with a maximum capacitance change of ±15% over an operating temperature range of -55°C - 125°C. **Z5U:** Class III, with a maximum capacitance change of 22% - 56% over an operating temperature range of 10°C - 85°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	.21	2.03	14.65	101.44	—	—	C410C150J1G5CA7200	
		68pF	±5	410	399-1811-1-ND	.21	2.03	14.65	101.44	—	—	C410C680J1G5CA7200	
		1500pF	±5	420	399-1819-1-ND	.32	3.01	21.71	150.28	—	—	C420C152J1G5CA7200	
		6800pF	±5	430	399-1823-1-ND	.74	6.99	50.47	349.41	399-1823-2-ND	2,500	232.94/M	C430C682J1G5CA7200
		680pF	±5	410	399-1826-1-ND	.22	2.07	14.93	103.40	—	—	C410C681J5G5CA7200	
		1500pF	±5	412	399-1828-1-ND	.33	3.16	22.80	157.80	399-1828-2-ND	5,000	105.20/M	C412C152J5G5CA7200
	50	1500pF	±5	420	399-1830-1-ND	.33	3.16	22.80	157.80	399-1830-2-ND	5,000	105.20/M	C420C152J5G5CA7200
		2200pF	±5	420	399-1831-1-ND	.33	3.16	22.80	157.80	399-1831-2-ND	5,000	105.27/M	C420C222J5G5CA7200
		3300pF	±5	430	399-1832-1-ND	.62	5.82	42.07	291.26	399-1832-2-ND	2,500	194.18/M	C430C332J5G5CA7200
		4700pF	±5	430	399-1833-1-ND	.62	5.82	42.07	291.26	—	—	C430C472J5G5CA7200	
		6800pF	±5	430	399-1834-1-ND	.62	5.82	42.07	291.26	—	—	C430C682J5G5CA7200	
		X7R	100	680pF	±10	410	399-1838-1-ND	.16	1.55	11.16	77.27	399-1838-2-ND	5,000
1500pF	±10			410	399-1840-1-ND	.16	1.55	11.16	77.27	399-1840-2-ND	5,000	51.51/M	C410C152K1R5CA7200
3300pF	±10			410	399-1842-1-ND	.16	1.55	11.16	77.27	399-1842-2-ND	5,000	51.51/M	C410C332K1R5CA7200
.015µF	±10			412	399-1846-1-ND	.19	1.80	12.98	89.84	399-1846-2-ND	5,000	59.90/M	C412C153K1R5CA7200
.015µF	±10			420	399-1848-1-ND	.19	1.80	12.98	89.84	—	—	C420C153K1R5CA7200	
.022µF	±10			420	399-1849-1-ND	.27	2.52	18.17	125.78	399-1849-2-ND	5,000	83.86/M	C420C223K1R5CA7200
50	.068µF		±10	430	399-1852-1-ND	.47	4.46	32.18	222.81	399-1852-2-ND	2,500	148.54/M	C430C683K1R5CA7200
	.15µF		±10	440	399-1854-1-ND	.70	6.61	47.76	330.62	399-1854-2-ND	2,500	220.42/M	C440C154K1R5CA7200
	.015µF		±10	410	399-1856-1-ND	.21	1.97	14.27	98.83	—	—	C410C153K5R5CA7200	
	.068µF		±10	420	399-1862-1-ND	.23	2.16	15.57	107.81	—	—	C420C683K5R5CA7200	
	.15µF		±10	430	399-1864-1-ND	.47	4.46	32.18	222.81	399-1864-2-ND	2,500	148.54/M	C440C154K5R5CA7200
	.47µF		±10	440	399-1867-1-ND	1.14	10.78	77.86	539.06	—	—	C430C474K5R5CA7200	
Z5U	100	.015µF	±20	410	399-1869-1-ND	.14	1.33	9.60	66.49	399-1869-2-ND	5,000	44.33/M	C410C153M1U5CA7200
		.022µF	±20	410	399-1870-1-ND	.14	1.33	9.60	66.49	—	—	C410C223M1U5CA7200	
		.033µF	±20	420	399-1871-1-ND	.22	2.08	15.06	104.22	399-1871-2-ND	5,000	69.48/M	C420C333M1U5CA7200
		.068µF	±20	430	399-1873-1-ND	.38	3.59	25.95	179.69	399-1873-2-ND	2,500	119.80/M	C430C683M1U5CA7200
		.22µF	±20	440	399-1876-1-ND	.41	3.96	28.55	197.65	—	—	C440C224M1U5CA7200	
		50	.033µF	±20	410	399-1877-1-ND	.13	1.22	8.83	61.09	—	—	C410C333M5U5CA7200
	.068µF		±20	410	399-1879-1-ND	.13	1.22	8.83	61.09	—	—	C410C683M5U5CA7200	
	.15µF		±20	410	399-1881-1-ND	.19	1.80	12.98	89.84	399-1881-2-ND	5,000	59.90/M	C410C154M5U5CA7200
	.33µF		±20	420	399-1884-1-ND	.29	2.77	19.99	138.36	—	—	C420C334M5U5CA7200	
	.68µF		±20	430	399-1886-1-ND	.47	4.49	32.44	224.61	—	—	C430C684M5U5CA7200	
	RoHS Compliant												
	C0G	100	10pF	±5	410	399-4446-1-ND	.21	2.03	14.65	101.44	399-4446-2-ND	5,000	67.52/M
15pF			±5	410	399-4455-1-ND	.21	2.03	14.65	101.44	399-4455-2-ND	5,000	67.52/M	C410C150J1G5TA7200
22pF			±5	410	399-4461-1-ND	.21	2.03	14.65	101.44	399-4461-2-ND	5,000	67.52/M	C410C220J1G5TA7200
33pF			±5	410	399-4467-1-ND	.21	2.03	14.65	101.44	399-4467-2-ND	5,000	67.52/M	C410C330J1G5TA7200
47pF			±5	410	399-4472-1-ND	.21	2.03	14.65	101.44	399-4472-2-ND	5,000	67.52/M	C410C470J1G5TA7200
68pF			±5	410	399-4478-1-ND	.21	2.03	14.65	101.44	399-4478-2-ND	5,000	67.52/M	C410C680J1G5TA7200
100pF			±5	410	399-4447-1-ND	.19	1.80	13.02	90.17	399-4447-2-ND	5,000	60.26/M	C410C101J1G5TA7200
150pF			±5	410	399-4456-1-ND	.21	2.03	14.65	101.44	399-4456-2-ND	5,000	67.52/M	C410C151J1G5TA7200
220pF			±5	410	399-4462-1-ND	.21	2.03	14.65	101.44	399-4462-2-ND	5,000	67.52/M	C410C221J1G5TA7200
330pF			±5	410	399-4468-1-ND	.21	2.03	14.65	101.44	399-4468-2-ND	5,000	67.52/M	C410C331J1G5TA7200
680pF			±5	410	399-4479-1-ND	.21	2.03	14.65	101.44	399-4479-2-ND	5,000	67.52/M	C410C681J1G5TA7200
470pF			±5	410	399-4473-1-ND	.21	2.03	14.65	101.44	399-4473-2-ND	5,000	67.52/M	C410C471J1G5TA7200
1000pF			±5	410	399-4448-1-ND	.20	1.88	13.57	93.93	399-4448-2-ND	5,000	62.44/M	C410C102J1G5TA7200
1500pF			±5	420	399-4492-1-ND	.32	3.01	21.71	150.28	399-4492-2-ND	5,000	100.19/M	C420C152J1G5TA7202
2200pF			±5	420	399-4495-1-ND	.33	3.16	22.80	157.80	399-4495-2-ND	5,000	105.27/M	C420C222J1G5TA7200
3300pF			±5	430	399-1821-1-ND	.54	5.18	37.45	259.24	—	—	—	C430C332J1G5CA7200
3300pF			±5	430	399-4508-1-ND	.54	5.18	37.45	259.24	399-4508-2-ND	2,500	172.79/M	C430C332J1G5TA7200
4700pF			±5	430	399-4510-1-ND	.54	5.18	37.45	259.24	399-4510-2-ND	2,500	172.79/M	C430C472J1G5TA7200
6800pF			±5	430	399-4514-1-ND	.74	6.99	50.47	349.41	399-4514-2-ND	2,500	233.05/M	C430C682J1G5TA7200
.01µF			±5	440	399-4519-1-ND	.85	8.08	58.35	403.97	399-4519-2-ND	2,500	269.35/M	C440C103J1G5TA7200
.015µF			±5	440	399-1825-1-ND	.85	8.08	58.35	403.97	—	—	—	C440C153J1G5CA7200
.015µF			±5	440	399-4522-1-ND	.85	8.08	58.35	403.97	399-4522-2-ND	2,500	269.35/M	C440C153J1G5TA7200

(Continued)

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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	100		1,000	Qty.		Pricing		
C0G	50	680pF	±5	410	399-4480-1-ND	.22	2.07	14.93	103.40	399-4480-2-ND	5,000	68.97/M	C410C681J5G5TA7200		
		1000pF	±5	410	399-4449-1-ND	.20	1.88	13.57	93.93	399-4449-2-ND	5,000	62.44/M	C410C102J5G5TA7200		
		1000pF	±5	410	399-1827-1-ND	.20	1.88	13.57	93.93	—	—	—	C410C102J5G5CA7200		
		1500pF	±5	412	399-4485-1-ND	.33	3.16	22.80	157.80	399-4485-2-ND	5,000	105.27/M	C412C152J5G5TA7200		
		2200pF	±5	412	399-4487-1-ND	.33	3.16	22.80	157.80	399-4487-2-ND	5,000	105.27/M	C412C222J5G5TA7200		
		1500pF	±5	420	399-4493-1-ND	.33	3.16	22.80	157.80	399-4493-2-ND	5,000	105.27/M	C420C152J5G5TA7200		
		2200pF	±5	420	399-4496-1-ND	.33	3.16	22.80	157.80	399-4496-2-ND	5,000	105.27/M	C420C222J5G5TA7200		
		3300pF	±5	430	399-4509-1-ND	.62	5.82	42.07	291.26	399-4509-2-ND	2,500	193.85/M	C430C332J5G5TA7200		
		4700pF	±5	430	399-4511-1-ND	.62	5.82	42.07	291.26	399-4511-2-ND	2,500	193.85/M	C430C472J5G5TA7200		
		6800pF	±5	430	399-4515-1-ND	.62	5.82	42.07	291.26	399-4515-2-ND	2,500	193.85/M	C430C682J5G5TA7200		
		.01µF	±5	440	399-4520-1-ND	.85	8.08	58.35	403.97	399-4520-2-ND	2,500	269.35/M	C440C103J5G5TA7200		
		.015µF	±5	440	399-4523-1-ND	1.05	9.92	71.63	495.93	399-4523-2-ND	2,500	330.34/M	C440C153J5G5TA7200		
		.015µF	±5	440	399-1836-1-ND	1.05	9.92	71.63	495.93	399-1836-2-ND	2,500	330.62/M	C440C153J5G5CA7200		
		X7R	100	470pF	±10	410	399-4474-1-ND	.16	1.55	11.16	77.27	399-4474-2-ND	5,000	51.55/M	C410C471K1R5TA7200
680pF	±10			410	399-4481-1-ND	.16	1.55	11.16	77.27	399-4481-2-ND	5,000	51.55/M	C410C681K1R5TA7200		
1000pF	±10			410	399-4450-1-ND	.15	1.44	10.38	71.87	399-4450-2-ND	5,000	47.92/M	C410C102K1R5TA7200		
1500pF	±10			410	399-4457-1-ND	.16	1.55	11.16	77.27	399-4457-2-ND	5,000	51.55/M	C410C152K1R5TA7200		
2200pF	±10			410	399-4463-1-ND	.16	1.55	11.16	77.27	399-4463-2-ND	5,000	51.55/M	C410C222K1R5TA7200		
3300pF	±10			410	399-4469-1-ND	.16	1.55	11.16	77.27	399-4469-2-ND	5,000	51.55/M	C410C332K1R5TA7200		
4700pF	±10			410	399-4475-1-ND	.16	1.55	11.16	77.27	399-4475-2-ND	5,000	51.55/M	C410C472K1R5TA7200		
6800pF	±10			410	399-4482-1-ND	.16	1.55	11.16	77.27	399-4482-2-ND	5,000	51.55/M	C410C682K1R5TA7200		
.01µF	±10			410	399-4451-1-ND	.13	1.22	8.83	61.09	399-4451-2-ND	5,000	40.66/M	C410C103K1R5TA7200		
.015µF	±10			412	399-4486-1-ND	.19	1.80	12.98	89.84	399-4486-2-ND	5,000	60.26/M	C412C153K1R5TA7200		
.022µF	±10			412	399-4488-1-ND	.24	2.30	16.61	115.00	399-4488-2-ND	5,000	76.96/M	C412C223K1R5TA7200		
.015µF	±10			420	399-4494-1-ND	.19	1.80	12.98	89.84	399-4494-2-ND	5,000	60.26/M	C420C153K1R5TA7200		
.022µF	±10			420	399-4497-1-ND	.27	2.52	18.17	125.78	399-4497-2-ND	5,000	84.22/M	C420C223K1R5TA7200		
.033µF	±10			420	399-4498-1-ND	.27	2.52	18.17	125.78	399-4498-2-ND	5,000	84.22/M	C420C333K1R5TA7200		
.047µF	±10		430	399-4512-1-ND	.34	3.24	23.36	161.72	399-4512-2-ND	2,500	108.18/M	C430C473K1R5TA7200			
.1µF	±10		430	399-4503-1-ND	.38	3.59	25.95	179.69	399-4503-2-ND	2,500	119.80/M	C430C104K1R5TA7200			
.068µF	±10		430	399-4516-1-ND	.47	4.46	32.18	222.81	399-4516-2-ND	2,500	148.84/M	C430C683K1R5TA7200			
.15µF	±10		440	399-4524-1-ND	.70	6.61	47.76	330.62	399-4524-2-ND	2,500	220.71/M	C440C154K1R5TA7200			
50	.01µF		±10	410	399-4452-1-ND	.12	1.15	8.31	57.50	399-4452-2-ND	5,000	38.48/M	C410C103K5R5TA7200		
	.015µF		±10	410	399-4458-1-ND	.21	1.97	14.27	98.83	399-4458-2-ND	5,000	66.07/M	C410C153K5R5TA7200		
	.022µF		±10	410	399-4464-1-ND	.21	1.97	14.27	98.83	399-4464-2-ND	5,000	66.07/M	C410C223K5R5TA7200		
	.033µF		±10	410	399-4470-1-ND	.21	1.97	14.27	98.83	399-4470-2-ND	5,000	66.07/M	C410C333K5R5TA7200		
	.047µF		±10	410	399-4476-1-ND	.23	2.16	15.57	107.81	399-4476-2-ND	5,000	71.88/M	C410C473K5R5TA7200		
	.068µF		±10	412	399-4490-1-ND	.23	2.16	15.57	107.81	399-4490-2-ND	5,000	71.88/M	C412C683K5R5TA7200		
	.1µF		±10	412	399-4484-1-ND	.15	1.36	9.87	68.28	399-4484-2-ND	5,000	45.74/M	C412C104K5R5TA7200		
	.068µF		±10	420	399-4502-1-ND	.23	2.16	15.57	107.81	399-4502-2-ND	5,000	71.88/M	C420C683K5R5TA7200		
	.1µF		±10	420	399-4491-1-ND	.15	1.36	9.87	68.28	399-4491-2-ND	5,000	45.74/M	C420C104K5R5TA7200		
	.15µF		±10	430	399-4505-1-ND	.47	4.46	32.18	222.81	399-4505-2-ND	2,500	148.84/M	C430C154K5R5TA7200		
	.22µF		±10	430	399-4507-1-ND	.70	6.61	47.76	330.62	399-4507-2-ND	2,500	220.71/M	C430C224K5R5TA7200		
	.33µF		±10	440	399-4526-1-ND	.77	7.26	52.43	362.96	399-4526-2-ND	2,500	241.76/M	C440C334K5R5TA7200		
	.47µF		±10	440	399-4527-1-ND	1.14	10.78	77.86	539.06	399-4527-2-ND	2,500	359.38/M	C440C474K5R5TA7200		
	Z5U		100	.01µF	±20	410	399-4453-1-ND	.10	.94	6.75	46.72	399-4453-2-ND	5,000	31.22/M	C410C103M1U5TA7200
				.015µF	±20	410	399-4459-1-ND	.14	1.33	9.60	66.49	399-4459-2-ND	5,000	44.29/M	C410C153M1U5TA7200
				.022µF	±20	410	399-4465-1-ND	.14	1.33	9.60	66.49	399-4465-2-ND	5,000	44.29/M	C410C223M1U5TA7200
		.033µF		±20	420	399-4499-1-ND	.22	2.08	15.06	104.22	399-4499-2-ND	5,000	69.70/M	C420C333M1U5TA7200	
		.047µF		±20	420	399-4501-1-ND	.22	2.08	15.06	104.22	399-4501-2-ND	5,000	69.70/M	C420C473M1U5TA7200	
		.068µF		±20	430	399-4517-1-ND	.38	3.59	25.95	179.69	399-4517-2-ND	2,500	119.80/M	C430C683M1U5TA7200	
		50	.1µF	±20	430	399-4504-1-ND	.25	2.34	16.87	116.80	399-4504-2-ND	2,500	77.69/M	C430C104M1U5TA7200	
.15µF			±20	430	399-4506-1-ND	.41	3.96	28.55	197.65	399-4506-2-ND	2,500	132.14/M	C430C154M1U5TA7200		
.22µF			±20	440	399-4525-1-ND	.41	3.96	28.55	197.65	399-4525-2-ND	2,500	132.14/M	C440C224M1U5TA7200		
.033µF			±20	410	399-4471-1-ND	.13	1.22	8.83	61.09	399-4471-2-ND	5,000	40.66/M	C410C333M5U5TA7200		
.047µF			±20	410	399-4477-1-ND	.13	1.22	8.83	61.09	399-4477-2-ND	5,000	40.66/M	C410C473M5U5TA7200		
.068µF			±20	410	399-4483-1-ND	.13	1.22	8.83	61.09	399-4483-2-ND	5,000	40.66/M	C410C683M5U5TA7200		
.1µF			±20	410	399-4454-1-ND	.09	.86	6.23	43.12	399-4454-2-ND	5,000	29.04/M	C410C104M5U5TA7200		
.15µF			±20	410	399-4460-1-ND	.19	1.80	12.98	89.84	399-4460-2-ND	5,000	60.26/M	C410C154M5U5TA7200		
.22µF			±20	410	399-4466-1-ND	.19	1.80	12.98	89.84	399-4466-2-ND	5,000	60.26/M	C410C224M5U5TA7200		
.33µF			±20	412	399-4489-1-ND	.29	2.77	19.99	138.36	399-4489-2-ND	5,000	92.21/M	C412C334M5U5TA7200		
.33µF	±20	420	399-4500-1-ND	.29	2.77	19.99	138.36	399-4500-2-ND	5,000	92.21/M	C420C334M5U5TA7200				
.47µF	±20	430	399-4513-1-ND	.47	4.49	32.44	224.61	399-4513-2-ND	2,500	149.56/M	C430C474M5U5TA7200				
.68µF	±20	430	399-4518-1-ND	.47	4.49	32.44	224.61	399-4518-2-ND	2,500	149.56/M	C430C684M5U5TA7200				
.4µF	±20	440	399-4521-1-ND	.61	5.75	41.53	287.50	399-4521-2-ND	2,500	191.67/M	C440C105M5U5TA7200				

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