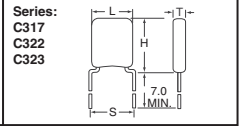
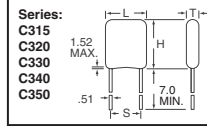


The "Golden MAX" series of multi-layer ceramic capacitors starts with a capacitor element that consists of formulated dielectric materials which have been cast into thin layers, and interspersed with metal electrodes alternately exposed on opposite edges of the laminated structure. The entire structure 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: **COG:** Class I, with a temperature coefficient of $\pm 30\text{ppm per degree C}$ over an operating temperature range of $-55^{\circ}\text{C} \sim 125^{\circ}\text{C}$ (Also known as "NP0"). **X7R:** Class II, with a maximum capacitance change of $\pm 15\%$ over an operating temperature range of $-55^{\circ}\text{C} \sim 125^{\circ}\text{C}$. **Z5U:** Class III, with a maximum capacitance change of $22\% - 56\%$ over an operating temperature range of $10^{\circ}\text{C} \sim 85^{\circ}\text{C}$. **RoHS Compliant Parts Available.**



Dielectric	VDC	Cap.	Dimensions - mm				Digi-Key Part No.	Pricing			Kemet Part No.	
			S	Max. L	Max. H	Max. T		1	10	100		
C315 Series												
COG ±5%	100	150pF	2.54	3.81	5.33	2.54	399-1900-ND	.27	1.96	14.00	C315C151J1G5CA	
		220pF	2.54	3.81	5.33	2.54	399-1901-ND	.27	1.96	14.00	C315C221J1G5CA	
		680pF	2.54	3.81	5.33	2.54	399-1904-ND	.38	2.82	20.15	C315C681J1G5CA	
		1000pF	2.54	3.81	5.33	2.54	399-1905-ND	.31	2.28	16.25	C315C102J1G5CA	
	200	10pF	2.54	3.81	5.33	2.54	399-1888-ND	.26	1.93	13.75	C315C100J2G5CA	
		15pF	2.54	3.81	5.33	2.54	399-1889-ND	.28	2.08	14.85	C315C150J2G5CA	
		22pF	2.54	3.81	5.33	2.54	399-1890-ND	.28	2.08	14.85	C315C220J2G5CA	
		47pF	2.54	3.81	5.33	2.54	399-1893-ND	.28	2.08	14.85	C315C470J2G5CA	
		330pF	2.54	3.81	5.33	2.54	399-1898-ND	.38	2.82	20.15	C315C331J2G5CA	
		470pF	2.54	3.81	5.33	2.54	399-1899-ND	.38	2.82	20.15	C315C471J2G5CA	
X7R ±10%	50	3300pF	2.54	3.81	5.33	2.54	399-2001-ND	.19	1.39	9.90	C315C332K5R5CA	
		4700pF	2.54	3.81	5.33	2.54	399-2002-ND	.21	1.54	11.00	C315C472K5R5CA	
		6800pF	2.54	3.81	5.33	2.54	399-2003-ND	.21	1.54	11.00	C315C682K5R5CA	
		.01µF	2.54	3.81	5.33	2.54	399-2004-ND	.20	1.51	10.75	C315C103K5R5CA	
		.015µF	2.54	3.81	5.33	2.54	399-2005-ND	.21	1.54	11.00	C315C153K5R5CA	
		.022µF	2.54	3.81	5.33	2.54	399-2006-ND	.22	1.66	11.83	C315C223K5R5CA	
	100	.033µF	2.54	3.81	5.33	2.54	399-2007-ND	.22	1.66	11.83	C315C333K5R5CA	
		1000pF	2.54	3.81	5.33	2.54	399-1994-ND	.17	1.27	9.08	C315C102K1R5CA	
		1500pF	2.54	3.81	5.33	2.54	399-1995-ND	.19	1.39	9.90	C315C152K1R5CA	
		2200pF	2.54	3.81	5.33	2.54	399-1996-ND	.19	1.39	9.90	C315C222K1R5CA	
Z5U ±20%	200	4700pF	2.54	3.81	5.33	2.54	399-1998-ND	.21	1.54	11.00	C315C472K1R5CA	
		6800pF	2.54	3.81	5.33	2.54	399-1999-ND	.21	1.54	11.00	C315C682K1R5CA	
		.01µF	2.54	3.81	5.33	2.54	399-2000-ND	.19	1.39	9.90	C315C103K1R5CA	
		100pF	2.54	3.81	5.33	2.54	399-1985-ND	.22	1.65	11.75	C315C101K2R5CA	
		150pF	2.54	3.81	5.33	2.54	399-1986-ND	.24	1.80	12.88	C315C151K2R5CA	
		220pF	2.54	3.81	5.33	2.54	399-1987-ND	.24	1.80	12.88	C315C221K2R5CA	
	50	330pF	2.54	3.81	5.33	2.54	399-1988-ND	.24	1.80	12.88	C315C331K2R5CA	
		470pF	2.54	3.81	5.33	2.54	399-1989-ND	.24	1.80	12.88	C315C471K2R5CA	
		680pF	2.54	3.81	5.33	2.54	399-1990-ND	.24	1.80	12.88	C315C681K2R5CA	
		1000pF	2.54	3.81	5.33	2.54	399-1991-ND	.22	1.65	11.75	C315C102K2R5CA	
NEW! C315 Series RoHS Compliant NEW!	100	1500pF	2.54	3.81	5.33	2.54	399-1992-ND	.24	1.80	12.88	C315C152K2R5CA	
		4700pF	2.54	3.81	5.33	2.54	399-2119-ND	.19	1.37	9.78	C315C472M5U5CA	
		6800pF	2.54	3.81	5.33	2.54	399-2120-ND	.19	1.37	9.78	C315C682M5U5CA	
		.015µF	2.54	3.81	5.33	2.54	399-2122-ND	.18	1.33	9.50	C315C153M5U5CA	
		.033µF	2.54	3.81	5.33	2.54	399-2124-ND	.18	1.33	9.50	C315C333M5U5CA	
		.068µF	2.54	3.81	5.33	2.54	399-2126-ND	.20	1.49	10.65	C315C683M5U5CA	
	200	.1µF	2.54	3.81	5.33	2.54	399-2127-ND	.16	1.21	8.63	C315C104M5U5CA	
		1000pF	2.54	3.81	5.33	2.54	399-2111-ND	.17	1.25	8.93	C315C102M1U5CA	
		1500pF	2.54	3.81	5.33	2.54	399-2112-ND	.19	1.37	9.78	C315C152M1U5CA	
		2200pF	2.54	3.81	5.33	2.54	399-2113-ND	.19	1.37	9.78	C315C222M1U5CA	
COG ±5%	100	3300pF	2.54	3.81	5.33	2.54	399-2114-ND	.19	1.37	9.78	C315C332M1U5CA	
		4700pF	2.54	3.81	5.33	2.54	399-2115-ND	.19	1.37	9.78	C315C472M1U5CA	
		6800pF	2.54	3.81	5.33	2.54	399-2116-ND	.19	1.37	9.78	C315C682M1U5CA	
		.01µF	2.54	3.81	5.33	2.54	399-2117-ND	.17	1.25	8.93	C315C103M1U5CA	
		.015µF	2.54	3.81	5.33	2.54	399-2118-ND	.21	1.53	10.93	C315C153M1U5CA	
		NEW! C315 Series RoHS Compliant NEW!										
	COG ±5%	100	150pF	2.54	3.81	5.33	2.54	399-4153-ND	.27	1.96	14.00	C315C151J1G5TA
			220pF	2.54	3.81	5.33	2.54	399-4163-ND	.27	1.96	14.00	C315C221J1G5TA
			330pF	2.54	3.81	5.33	2.54	399-4173-ND	.27	1.96	14.00	C315C331J1G5TA
			470pF	2.54	3.81	5.33	2.54	399-4182-ND	.27	1.96	14.00	C315C471J1G5TA
680pF			2.54	3.81	5.33	2.54	399-4191-ND	.38	2.82	20.15	C315C681J1G5TA	
1000pF			2.54	3.81	5.33	2.54	399-4143-ND	.31	2.28	16.25	C315C102J1G5TA	
200		10pF	2.54	3.81	5.33	2.54	399-4140-ND	.26	1.93	13.75	C315C100J2G5TA	
		15pF	2.54	3.81	5.33	2.54	399-4152-ND	.28	2.08	14.85	C315C150J2G5TA	
		22pF	2.54	3.81	5.33	2.54	399-4162-ND	.28	2.08	14.85	C315C220J2G5TA	
		27pF	2.54	3.81	5.33	2.54	399-4171-ND	.28	2.08	14.85	C315C270J2G5TA	
COG ±5%	200	33pF	2.54	3.81	5.33	2.54	399-4172-ND	.28	2.08	14.85	C315C330J2G5TA	
		47pF	2.54	3.81	5.33	2.54	399-4181-ND	.28	2.08	14.85	C315C470J2G5TA	
		68pF	2.54	3.81	5.33	2.54	399-4190-ND	.30	2.19	15.68	C315C680J2G5TA	
		100pF	2.54	3.81	5.33	2.54	399-4141-ND	.28	2.08	14.85	C315C101J2G5TA	
		150pF	2.54	3.81	5.33	2.54	399-4154-ND	.32	2.35	16.80	C315C151J2G5TA	
		220pF	2.54	3.81	5.33	2.54	399-4164-ND	.32	2.35	16.80	C315C221J2G5TA	
	200	330pF	2.54	3.81	5.33	2.54	399-4174-ND	.38	2.82	20.15	C315C331J2G5TA	
		470pF	2.54	3.81	5.33	2.54	399-4183-ND	.38	2.82	20.15	C315C471J2G5TA	

Dielectric	VDC	Cap.	Dimensions - mm				Digi-Key Part No.	Pricing			Kemet Part No.
			S	L	Max. H	Max. T		1	10	100	
X7R ±10%	50	3300pF	2.54	3.81	5.33	2.54	399-4177-ND	.19	1.39	9.90	C315C332K5R5TA
		4700pF	2.54	3.81	5.33	2.54	399-4186-ND	.21	1.54	11.00	C315C472K5R5TA
		6800pF	2.54	3.81	5.33	2.54	399-4194-ND	.21	1.54	11.00	C315C682K5R5TA
		.01µF	2.54	3.81	5.33	2.54	399-4148-ND	.20	1.51	10.75	C315C103K5R5TA
		.015µF	2.54	3.81	5.33	2.54	399-4159-ND	.21	1.54	11.00	C315C153K5R5TA
		.022µF	2.54	3.81	5.33	2.54	399-4169-ND	.22	1.66	11.83	C315C223K5R5TA
	100	.033µF	2.54	3.81	5.33	2.54	399-4179-ND	.22	1.66	11.83	C315C333K5R5TA
		1000pF	2.54	3.81	5.33	2.54	399-4144-ND	.17	1.27	9.08	C315C102K1R5TA
		1500pF	2.54	3.81	5.33	2.54	399-4156-ND	.19	1.39	9.90	C315C152K1R5TA
		2200pF	2.54	3.81	5.33	2.54	399-4166-ND	.19	1.39	9.90	C315C222K1R5TA
		3300pF	2.54	3.81	5.33	2.54	399-4176-ND	.19	1.39	9.90	C315C332K1R5TA
		4700pF	2.54	3.81	5.33	2.54	399-4185-ND	.21	1.54	11.00	C315C472K1R5TA
Z5U ±20%	50	6800pF	2.54	3.81	5.33	2.54	399-4193-ND	.21	1.54	11.00	C315C682K1R5TA
		.01µF	2.54	3.81	5.33	2.54	399-4147-ND	.19	1.39	9.90	C315C103K1R5TA
		100pF	2.54	3.81	5.33	2.54	399-4142-ND	.22	1.65	11.75	C315C101K2R5TA
		150pF	2.54	3.81	5.33	2.54	399-4155-ND	.24	1.80	12.88	C315C151K2R5 TA
		220pF	2.54	3.81	5.33	2.54	399-4165-ND	.24	1.80	12.88	C315C221K2R5TA
		330pF	2.54	3.81	5.33	2.54	399-4175-ND	.24	1.80	12.88	C315C331K2R5TA
	100	470pF	2.54	3.81	5.33	2.54	399-4184-ND	.24	1.80	12.88	C315C471K2R5TA
		680pF	2.54	3.81	5.33	2.54	399-4192-ND	.24	1.80	12.88	C315C681K2R5TA
		1000pF	2.54	3.81	5.33	2.54	399-4145-ND	.22	1.65	11.75	C315C102K2R5TA
		1500pF	2.54	3.81	5.33	2.54	399-4157-ND	.24	1.80	12.88	C315C152K2R5TA
		2200pF	2.54	3.81	5.33	2.54	399-4167-ND	.24	1.80	12.88	C315C222K2R5TA
		COG ±5%	100	4700pF	2.54	3.81	5.33	2.54	399-4188-ND	.19	1.37
6800pF	2.54			3.81	5.33	2.54	399-4196-ND	.19	1.37	9.78	C315C682M5U5TA
.01µF	2.54			3.81	5.33	2.54	399-4150-ND	.16	1.21	8.63	C315C103M5U5TA
.015µF	2.54			3.81	5.33	2.54	399-4161-ND	.18	1.33	9.50	C315C153M5U5TA
.022µF	2.54			3.81	5.33	2.54	399-4170-ND	.18	1.33	9.50	C315C223M5U5TA
.033µF	2.54			3.81	5.33	2.54	399-4180-ND	.18	1.33	9.50	C315C333M5U5TA
200	.047µF		2.54	3.81	5.33	2.54	399-4189-ND	.18	1.33	9.50	C315C473M5U5TA
	.068µF		2.54	3.81	5.33	2.54	399-4197-ND	.20	1.49	10.65	C315C683M5U5TA
	.1µF		2.54	3.81	5.33	2.54	399-4151-ND	.16	1.21	8.63	C315C104M5U5TA
	1000pF		2.54	3.81	5.33	2.54	399-4146-ND	.17	1.25	8.93	C315C102M1U5TA
	1500pF		2.54	3.81	5.33	2.54	399-4158-ND	.19	1.37	9.78	C315C152M1U5TA
	2200pF		2.54	3.81	5.33	2.54	399-4168-ND	.19	1.37	9.78	C315C222M1U5TA
X7R ±10%	50	3300pF	2.54	3.81	5.33	2.54	399-4178-ND	.19	1.37	9.78	C315C332M1U5TA
		4700pF	2.54	3.81	5.33	2.54	399-4187-ND	.19	1.37	9.78	C315C472M1U5TA
		6800pF	2.54	3.81	5.33	2.54	399-4195-ND	.19	1.37	9.78	C315C682M1U5TA
		.01µF	2.54	3.81	5.33	2.54	399-4149-ND	.17	1.25	8.93	C315C103M1U5TA
		.015µF	2.54	3.81	5.33	2.54	399-4160-ND	.21	1.53	10.93	C315C153M1U5TA
		100	150pF	5.08	3.81	5.84	2.54	399-1918-ND	.27	1.96	14.00
	220pF		5.08	3.81	5.84	2.54	399-1919-ND	.27	1.96	14.00	C317C221J1G5CA
	330pF		5.08	3.81	5.84	2.54	399-1920-ND	.27	1.96	14.00	C317C331J1G5CA
	470pF		5.08	3.81	5.84	2.54	399-1921-ND	.27	1.96	14.00	C317C471J1G5CA
	680pF		5.08	3.81	5.84	2.54	399-1922-ND	.38	2.82	20.15	C317C681J1G5CA
	1000pF		5.08	3.81	5.84	2.54	399-1923-ND	.31	2.28	16.25	C317C102J1G5CA
	X7R ±10%	200	15pF	5.08	3.81	5.84	2.54	399-1907-ND	.28	2.08	14.85
22pF			5.08	3.81	5.84	2.54	399-1908-ND	.28	2.08	14.85	C317C220J2G5CA
39pF			5.08	3.81	5.84	2.54	399-1910-ND	.28	2.08	14.85	C317C390J2G5CA
68pF			5.08	3.81	5.84	2.54	399-1912-ND	.28	2.08	14.85	C317C390J2G5CA
100pF			5.08	3.81	5.84	2.54	399-1913-ND	.28	2.08	14.85	C317C101J2G5CA
220pF			5.08	3.81	5.84	2.54	399-1915-ND	.32	2.35	16.80	C317C680J2G5CA
50		470pF	5.08	3.81	5.84	2.54	399-1917-ND	.38	2.82	20.15	C317C471J2G5CA
		3300pF	5.08	3.81	5.84	2.54	399-2024-ND	.19	1.39	9.90	C317C332K5R5CA
		4700pF	5.08	3.81	5.84	2.54	399-2025-ND	.21	1.54	11.00	C317C472K5R5CA
		6800pF	5.08	3.81	5.84	2.54	399-2026-ND	.21	1.54	11.00	C317C682K5R5CA
		.015µF	5.08	3.81	5.84	2.54	399-2028-ND	.21	1.54	11.00	C317C153K5R5CA
		100	1000pF	5.08	3.81	5.84	2.54	399-2017-ND	.17	1.27	9.08
1500pF	5.08		3.81	5.84	2.54	399-2018-ND	.19	1.39	9.90	C317C152K1R5CA	
2200pF	5.08		3.81	5.84	2.54	399-2019-ND	.19	1.39	9.90	C317C222K1R5CA	
3300pF	5.08		3.81	5.84	2.54	399-2020-ND	.19	1.39	9.90	C317C332K1R5CA	
4700pF	5.08		3.81	5.84	2.54	399-2021-ND	.21	1.54	11.00	C317C472K1R5CA	
6800pF	5.08		3.81	5.84	2.54	399-2022-ND	.21	1.54	11.00	C317C682K1R5CA	
200	.01µF	5.08	3.81	5.84	2.54	399-2023-ND	.19	1.39	9.90	C317C103K1R5CA	
	100pF	5.08	3.81	5.84	2.54	399-2008-ND	.22	1.65	11.75	C317C101K2R5CA	
	150pF	5.08	3.81	5.84	2.54	399-2009-ND	.24	1.80	12.88	C317C151K2R5CA	
	220pF	5.08	3.81	5.84	2.54	399-2010-ND	.24	1.80	12.88	C317C221K2R5CA	
	330pF	5.08	3.81	5.84	2.54	399-2011-ND	.24	1.80	12.88	C317C331K2R5CA	
	470pF	5.08	3.81	5.84	2.54	399-2012-ND	.24	1.80	12.88	C317C471K2R5CA	
200	680pF	5.08	3.81	5.84	2.54	399-2013-ND	.24	1.80	12.88	C317C681K2R5CA	