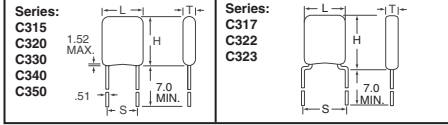




# Ceramic Conformally Coated Radial Leaded Capacitors "GOLDEN MAX"

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 0 ± 30ppm per degree C over an operating temperature range of -55°C - 125°C (Also known as "NPO"). **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.



Dielectric	VDC	Cap.	Dimensions - mm					Digi-Key Part No.	Pricing			Kemet Part No.		
			S	L	Max. H	Max. T	1		10	100				
<b>C315 Series - RoHS Compliant</b>														
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	C315C1021J1G5TA			
		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			
X7R ±10%	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			
		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			
		.022µF	2.54	3.81	5.33	2.54	399-4169-ND	.22	1.66	11.83	C315C022J2G5TA			
		.033µF	2.54	3.81	5.33	2.54	399-4179-ND	.22	1.66	11.83	C315C033J2G5TA			
X7R ±10%	100	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			
		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	C315C01K1R5TA			
		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	C315C151K2R5TA			
		220pF	2.54	3.81	5.33	2.54	399-4165-ND	.24	1.80	12.88	C315C221K2R5TA			
Z5U ±20%	200	330pF	2.54	3.81	5.33	2.54	399-4175-ND	.24	1.80	12.88	C315C331K2R5TA			
		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			
		4700pF	2.54	3.81	5.33	2.54	399-4188-ND	.19	1.37	9.78	C315C472M5U5TA			
		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	C315C01M5U5TA			
		.015µF	2.54	3.81	5.33	2.54	399-4161-ND	.18	1.33	9.50	C315C015M5U5TA			
Z5U ±20%	50	.022µF	2.54	3.81	5.33	2.54	399-4170-ND	.18	1.33	9.50	C315C022M5U5TA			
		.033µF	2.54	3.81	5.33	2.54	399-4180-ND	.18	1.33	9.50	C315C033M5U5TA			
		.047µF	2.54	3.81	5.33	2.54	399-4189-ND	.18	1.33	9.50	C315C047M5U5TA			
		.068µF	2.54	3.81	5.33	2.54	399-4197-ND	.20	1.49	10.65	C315C068M5U5TA			
		.1µF	2.54	3.81	5.33	2.54	399-4151-ND	.16	1.21	8.63	C315C014M5U5TA			
		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			
		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			
Z5U ±20%	100	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	C315C01M3U5TA			
		.015µF	2.54	3.81	5.33	2.54	399-4160-ND	.21	1.53	10.93	C315C015M3U5TA			
		<b>C317 Series</b>												
		Z5U ±20%	100	6800pF	5.08	3.81	5.84	2.54	399-2133-ND	.19	1.37	9.78	C317C682M1U5CA	
		.015µF	5.08	3.81	5.84	2.54	399-2135-ND	.21	1.53	10.93	C317C153M1U5CA			
		<b>C317 Series - RoHS Compliant</b>												
		COG ±5%	100	150pF	5.08	3.81	5.84	2.54	399-4211-ND	.27	1.96	14.00	C317C151J1G5TA	
				220pF	5.08	3.81	5.84	2.54	399-4221-ND	.27	1.96	14.00	C317C221J1G5TA	
				330pF	5.08	3.81	5.84	2.54	399-4230-ND	.27	1.96	14.00	C317C331J1G5TA	
470pF	5.08			3.81	5.84	2.54	399-4240-ND	.27	1.96	14.00	C317C471J1G5TA			
680pF	5.08			3.81	5.84	2.54	399-4248-ND	.38	2.82	20.15	C317C681J1G5TA			
1000pF	5.08			3.81	5.84	2.54	399-4201-ND	.31	2.28	16.25	C317C1021J1G5TA			
10pF	5.08			3.81	5.84	2.54	399-4198-ND	.26	1.93	13.75	C317C100J2G5TA			
15pF	5.08			3.81	5.84	2.54	399-4210-ND	.28	2.08	14.85	C317C150J2G5TA			
22pF	5.08			3.81	5.84	2.54	399-4220-ND	.28	2.08	14.85	C317C220J2G5TA			
33pF	5.08			3.81	5.84	2.54	399-4229-ND	.28	2.08	14.85	C317C330J2G5TA			
COG ±5%	200	39pF	5.08	3.81	5.84	2.54	399-4238-ND	.28	2.08	14.85	C317C390J2G5TA			
		47pF	5.08	3.81	5.84	2.54	399-4239-ND	.28	2.08	14.85	C317C470J2G5TA			
		68pF	5.08	3.81	5.84	2.54	399-4247-ND	.30	2.19	15.68	C317C680J2G5TA			
		100pF	5.08	3.81	5.84	2.54	399-4199-ND	.28	2.08	14.85	C317C101J2G5TA			
		150pF	5.08	3.81	5.84	2.54	399-4212-ND	.32	2.35	16.80	C317C151J2G5TA			
		220pF	5.08	3.81	5.84	2.54	399-4222-ND	.32	2.35	16.80	C317C221J2G5TA			

Dielectric	VDC	Cap.	Dimensions - mm					Digi-Key Part No.	Pricing			Kemet Part No.
			S	L	Max. H	Max. T	1		10	100		
COG ±5%	200	330pF	5.08	3.81	5.84	2.54	399-4231-ND	.38	2.82	20.15	C317C331J2G5TA	
		470pF	5.08	3.81	5.84	2.54	399-4241-ND	.38	2.82	20.15	C317C471J2G5TA	
		3300pF	5.08	3.81	5.84	2.54	399-4234-ND	.19	1.39	9.90	C317C332K5R5TA	
		4700pF	5.08	3.81	5.84	2.54	399-4244-ND	.21	1.54	11.00	C317C472K5R5TA	
		6800pF	5.08	3.81	5.84	2.54	399-4251-ND	.21	1.54	11.00	C317C682K5R5TA	
		.01µF	5.08	3.81	5.84	2.54	399-4206-ND	.20	1.51	10.75	C317C01K5R5TA	
		.015µF	5.08	3.81	5.84	2.54	399-4217-ND	.21	1.54	11.00	C317C015K5R5TA	
		.022µF	5.08	3.81	5.84	2.54	399-4227-ND	.22	1.66	11.83	C317C022K5R5TA	
		.033µF	5.08	3.81	5.84	2.54	399-4236-ND	.22	1.66	11.83	C317C033K5R5TA	
		X7R ±10%	100	1000pF	5.08	3.81	5.84	2.54	399-4202-ND	.17	1.27	9.08
1500pF	5.08			3.81	5.84	2.54	399-4214-ND	.19	1.39	9.90	C317C152K1R5TA	
2200pF	5.08			3.81	5.84	2.54	399-4224-ND	.19	1.39	9.90	C317C222K1R5TA	
3300pF	5.08			3.81	5.84	2.54	399-4233-ND	.19	1.39	9.90	C317C332K1R5TA	
4700pF	5.08			3.81	5.84	2.54	399-4243-ND	.21	1.54	11.00	C317C472K1R5TA	
6800pF	5.08			3.81	5.84	2.54	399-4250-ND	.21	1.54	11.00	C317C682K1R5TA	
.01µF	5.08			3.81	5.84	2.54	399-4205-ND	.19	1.39	9.90	C317C01K1R5TA	
100pF	5.08			3.81	5.84	2.54	399-4200-ND	.22	1.65	11.75	C317C101K2R5TA</	

