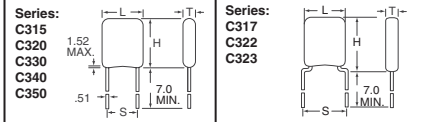




# Ceramic Conformally Coated Radial Leaded Capacitors "GOLDEN MAX"

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	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	C315C102J1G5TA	
		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	
		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	
		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	
COG ±5%	50	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	C315C103K5R5TA	
		.022µF	2.54	3.81	5.33	2.54	399-4169-ND	.22	1.66	11.83	C315C223K5R5TA	
		.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	
X7R ±10%	100	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	
		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	
X7R ±10%	200	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	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	
		.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	
Z5U ±20%	100	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	
		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	
		<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
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	C317C102J1G5TA	
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	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	C317C103K5R5TA
		.015µF	5.08	3.81	5.84	2.54	399-4217-ND	.21	1.54	11.00	C317C153K5R5TA
		.022µF	5.08	3.81	5.84	2.54	399-4227-ND	.22	1.66	11.83	C317C223K5R5TA
		.033µF	5.08	3.81	5.84	2.54	399-4236-ND	.22	1.66	11.83	C317C333K5R5TA
		X7R ±10%	100	1000pF	5.08	3.81	5.84	2.54	399-4202-ND	.17	1.27
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	C317C103K1R5TA
100pF	5.08			3.81	5.84	2.54	399-4200-ND	.22	1.65	11.75	C317C101K2R5TA
150pF	5.08			3.81	5.84	2.54	399-4213-ND	.24	1.80	12.88	C317C151K2R5TA
220pF	5.08			3.81							



Ceramic Conformally Coated Radial Leaded Capacitors "GOLDEN MAX" (Cont.)

Table with columns: Dielectric, VDC, Cap., Dimensions - mm (S, Max. L, Max. H, Max. T), Digi-Key Part No., Pricing (1, 10, 100), Kemet Part No. Rows include X7R ±10%, X7R ±20%, Z5U ±20%, C322 Series, C323 Series - RoHS Compliant, C324 Series - RoHS Compliant, C325 Series - RoHS Compliant, C326 Series - RoHS Compliant, C327 Series - RoHS Compliant, C328 Series - RoHS Compliant, C329 Series - RoHS Compliant, C330 Series - RoHS Compliant, C331 Series - RoHS Compliant, C332 Series - RoHS Compliant, C333 Series - RoHS Compliant, C334 Series - RoHS Compliant, C335 Series - RoHS Compliant, C336 Series - RoHS Compliant, C337 Series - RoHS Compliant, C338 Series - RoHS Compliant, C339 Series - RoHS Compliant, C340 Series - RoHS Compliant, C341 Series - RoHS Compliant, C342 Series - RoHS Compliant, C343 Series - RoHS Compliant, C344 Series - RoHS Compliant, C345 Series - RoHS Compliant, C346 Series - RoHS Compliant, C347 Series - RoHS Compliant, C348 Series - RoHS Compliant, C349 Series - RoHS Compliant, C350 Series - RoHS Compliant.

Table with columns: Dielectric, VDC, Cap., Dimensions - mm (S, Max. L, Max. H, Max. T), Digi-Key Part No., Pricing (1, 10, 100), Kemet Part No. Rows include Z5U ±20%, C323 Series - RoHS Compliant, C330 Series - RoHS Compliant, C331 Series - RoHS Compliant, C332 Series - RoHS Compliant, C333 Series - RoHS Compliant, C334 Series - RoHS Compliant, C335 Series - RoHS Compliant, C336 Series - RoHS Compliant, C337 Series - RoHS Compliant, C338 Series - RoHS Compliant, C339 Series - RoHS Compliant, C340 Series - RoHS Compliant, C341 Series - RoHS Compliant, C342 Series - RoHS Compliant, C343 Series - RoHS Compliant, C344 Series - RoHS Compliant, C345 Series - RoHS Compliant, C346 Series - RoHS Compliant, C347 Series - RoHS Compliant, C348 Series - RoHS Compliant, C349 Series - RoHS Compliant, C350 Series - RoHS Compliant.

Capacitor Kit (Kemet Part No. CER ENG KIT 08) - RoHS Compliant High Voltage Capacitor Kit, 400 total pieces (See Digi-Key website for values included) ..... \$50.00

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