

Class II Ceramic Disc Capacitors (RoHS Compliant) CDR Series

■ FEATURES

- · Large capacitance in small sizes
- · Non linear temperature coefficient of capacitance.





■ CHARACTERISTICS

Item	Characteristics		
Operating Temperature Range	-25°C ~ +85°C		
Capacitance Tolerance (min.)	Within the tolerance at 1MHz, 1~3Vrms, 25°C		
Working Voltage (WVDC)	50WV, 100WV, or 500WV		
Insulation Resistance	10,000M Ω min. or 200M Ω μ F, whichever is less		
Test Voltage	2.5 x WVDC		
Life Test	At 2 x WVDC @85°C for 1000 hours @ 85°C, capacitors shall meet the following: the capacitance change for Y5P will be ±10%; Z5U will be ±20%; Z5V will be ±30%: the dissipation factor for Y5P and Z5U will be ≤50x10³; Z5V will be ≤75x10³.		
Humidity Test	At exposure in the ambient temperature of 40°C, and at 95% RH for 500 hours: the capacitance change for Y5P will be ±10%; Z5U will be ±20%; Z5V will be ±30%: the dissipation factor for Y5P and Z5U will be ≤50x10³; Z5V will be ≤75x10³.		

■ PART NUMBERING SYSTEM

1 4 0

Series

5	0

Voltage Actual Value Р

Temp.

Coeff.

2

Lead Space 1st 2nd # ø's

1 0 1

Capacitance (pF)

- R C

Suffix (RoHSCompliant)

Temp. Coeff.	Code
Y5P	Р
Z5U	Z
Z5V	Q

Lead Space	Code
2.5mm	2
5.0mm	5
9.5mm	9

Code
С
J
K

Tolerance	Code
±20%	M
±0.5pF	D
+80/-20%	Z

K

Tolerance

■ TEMPERATURE COEFFICIENT CHARACTERISTICS

Temperature Coefficient	Y5P	Z5U	Z5V	
Operating Temp. Range	-25°C ~ +85°C	+10°C ~ +85°C	+10°C ~ +85°C	
Capacitance Change	±10%	+20%, -55%	+30%, -80%	

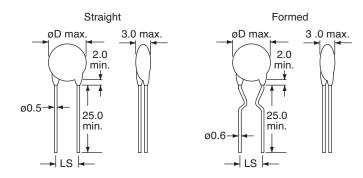
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XICON



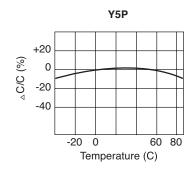
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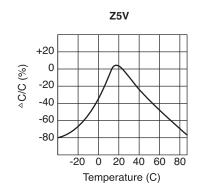
■ DIMENSIONS (mm), CAPACITANCE RANGES (pF)

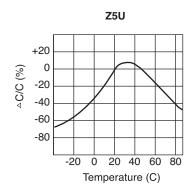


Dimensions			Working Voltage (WV);	Temperature Coefficient;	Capacitance Range (pF)	
		50 and 100			500	
øD (mm)	LS (mm)	Y5P	Z5U	Z5V	Y5P	Z5U
5	2.5/5.0	200 ~ 2200	1000 ~ 5000	1000 ~ 10000	150 ~ 270	1000 ~ 2200
6	2.5/5.0	2700 ~ 3000	6800 ~ 8200		390 ~ 1200	3700 ~ 3900
7.5	2.5/5.0	3300 ~ 3900	10000	20000 ~ 22000	1500 ~ 2000	
8.5	2.5/5.0	4700 ~ 5600			2200 ~ 2700	4700 ~ 5000
9.5	5.0	6800 ~ 8200			3000 ~ 3300	6800 ~ 8200
10.5	5.0	10000	20000 ~ 22000		3900	10000
15	9.5			33000 ~ 100,000		22000

■ TYPICAL TEMPERATURE CHARACTERISTICS







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