# Class II Ceramic Disc Capacitors (RoHS Compliant) CDR Series

#### FEATURES

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

RoHS Compliant

## 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	10,000MΩ min. or 200MΩ $\mu$ 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 $\pm 10\%$ ; Z5U will be $\pm 20\%$ ; Z5V will be $\pm 30\%$ : the dissipation factor for Y5P and Z5U will be $\leq 50\times10^3$ ; Z5V will be $\leq 75\times10^3$ .
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 $\pm 10\%$ ; Z5U will be $\pm 20\%$ ; Z5V will be $\pm 30\%$ : the dissipation factor for Y5P and Z5U will be $\leq 50\times10^3$ ; Z5V will be $\leq 75\times10^3$ .

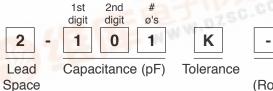
#### PART NUMBERING SYSTEM

1 4 0 Series



Voltage Temp. Actual Value Coeff.

Ρ



Code M

> D Z



(RoHSCompliant)

Temp. Coeff.	Code	Lead Spa	ce Cod
Y5P	Р	2.5mm	2
Z5U	Z	5.0mm	5
Z5V	Q	9.5mm	9

de	Tolerance	Code	Tolerance
	±0.25pF	С	±20%
	±5%	J	±0.5pF
	±10%	К	+80/-20%

## ■ 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%



