

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 $\Omega\mu$ 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 ±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 ±30%; Z5V will be ±30%; the dissipation factor for Y5P and Z5U will be ≤50x10³; Z5V will be ≤75x10³. | |

■ PART NUMBERING SYSTEM



Series

Voltage Actual Value

Temp. Lead Coeff. Space

2

Capacitance (pF)

Tolerance

- R C

Suffix (RoHSCompliant)

| Temp. Coeff. | Code |
|--------------|------|
| Y5P | Р |
| Z5U | Z |
| 75V | O |

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

| Tolerance | Code | Tole |
|-----------|------|------|
| ±0.25pF | С | ± |
| ±5% | J | ±C |
| ±10% | K | +80 |

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

■ 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% |

XICON

Date Revised: 7/17/06