



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

## FEATURES

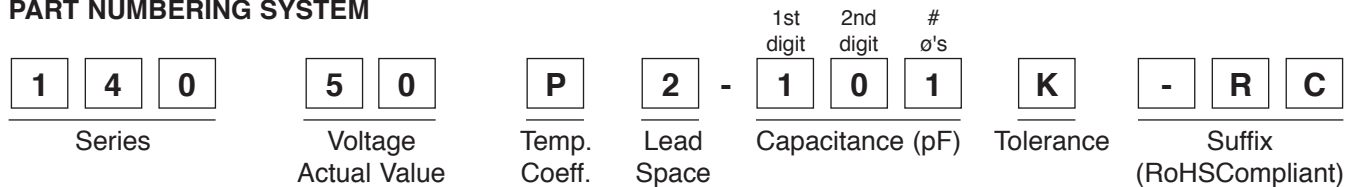
- Large capacitance in small sizes
- Non linear temperature coefficient of capacitance.



## 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        | 10,000MΩ min. or 200MΩμF, 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 ≤50x10 <sup>-3</sup> ; Z5V will be ≤75x10 <sup>-3</sup> . |
| 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 ≤50x10 <sup>-3</sup> ; Z5V will be ≤75x10 <sup>-3</sup> .  |

## PART NUMBERING SYSTEM



| Temp. Coeff. | Code     |
|--------------|----------|
| Y5P          | <b>P</b> |
| Z5U          | <b>Z</b> |
| Z5V          | <b>Q</b> |

| Lead Space | Code     |
|------------|----------|
| 2.5mm      | <b>2</b> |
| 5.0mm      | <b>5</b> |
| 9.5mm      | <b>9</b> |

| Tolerance | Code     |
|-----------|----------|
| ±0.25pF   | <b>C</b> |
| ±5%       | <b>J</b> |
| ±10%      | <b>K</b> |

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

## 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%    |

