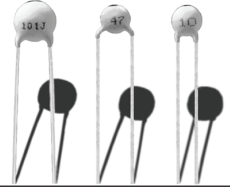




Class I Ceramic Disc Capacitors (RoHS Compliant) CDR Series

FEATURES

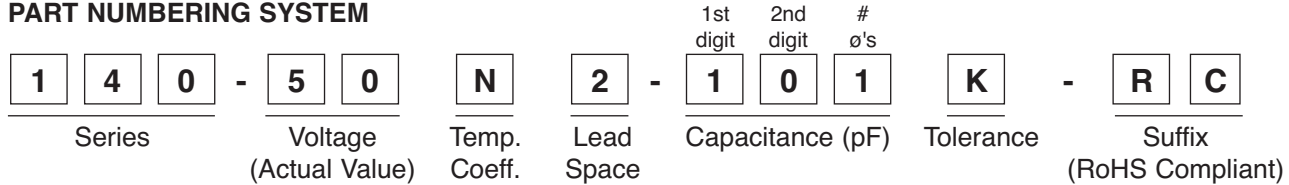
- Linear temperature coefficient of capacitance
- High stability of capacitance
- Low loss across a wide frequency range



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 or 500WV |
| Insulation Resistance | 10,000MΩ min. |
| Test Voltage | 3 x WVDC |
| Life Test | At 2 x WVDC @85°C for 1000 hours @ 85°C, capacitors shall meet the following: the capacitance change for ≤30pF will be ≤±5% or ≤0.3pF; for >30pF the capacitance change will be ≤±3%. For ≤30pF Q ≥ 275 = 5/3C; for >30pF Q ≥ 350 |
| Humidity Test | At exposure in the ambient temperature of 40°C, and at 95% RH for 500 hours the capacitors shall meet the following after 24 hours exposure at room temperature: the capacitance change for ≤30pF will be ≤±5% or ≤0.3pF; for >30pF the capacitance change will be ≤±5%. For ≤30pF Q ≥ 275 = 5/3C; for >30pF Q ≥ 350 |

PART NUMBERING SYSTEM

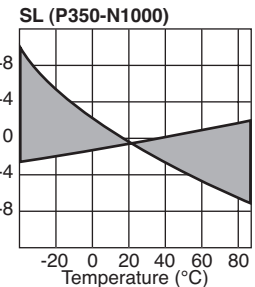
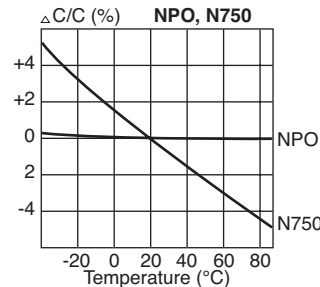
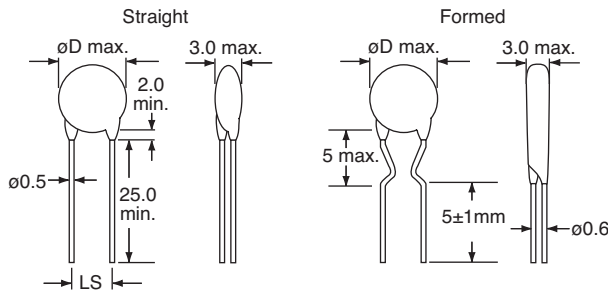


| Temp. Coeff. | Code |
|--------------|----------|
| NPO | N |
| N750 | E |
| SL | S |

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

| Tolerance | Code | Tolerance | Code |
|-----------|----------|-----------|----------|
| ±0.25pF | C | ±20% | M |
| ±5% | J | ±0.5pF | D |
| ±10% | K | +80/-20% | Z |

DIMENSIONS (mm), CAPACITANCE RANGES (pF), TYPICAL TEMPERATURE CHARACTERISTICS



| Dimensions | | Working Voltage (WV); Temperature Coefficient; Capacitance Range (pF) | | | | | |
|------------|---------|---|---------|-----------|---------|---------|-----------|
| | | 50/100 | | | 500 | | |
| øD (mm) | LS (mm) | NPO | N750 | SL | NPO | N750 | SL |
| 5 | 2.5/5.0 | 1 ~ 47 | 22 ~ 47 | 50 ~ 150 | --- | --- | 39 ~ 100 |
| 6 | 2.5/5.0 | 56 ~ 68 | --- | 180 ~ 220 | 1-36 | 18 ~ 33 | 120 ~ 150 |
| 7.5 | 2.5/5.0 | 82 ~ 100 | --- | 250 ~ 330 | 39 ~ 82 | 39 ~ 68 | 180 ~ 220 |
| 8.5 | 2.5/5.0 | 120 ~ 150 | --- | 390 ~ 470 | --- | --- | 270 ~ 300 |
| 9.5 | 5.0 | 180 ~ 200 | --- | 500 ~ 680 | --- | --- | 300 ~ 390 |
| 10.5 | 5.0 | 220 ~ 270 | --- | 820 | 100 | --- | 400 ~ 470 |
| 12.5 | 5.0 | 300 ~ 330 | --- | --- | --- | --- | 560 |



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