

CERAMIC DISC CAPACITOR

Suntan®

CLASS I TEMPERATURE COMPENSATION

TS15



FEATURES

- Linear temperature coefficient of capacitance.
- High stability of capacitance.
- Low loss at wide range of frequency.

SPECIFICATIONS

| | |
|-----------------------------|--|
| OPERATING TEMPERATURE RANGE | -25°C TO +85°C |
| RATED WORKING VOLTAGE | DC 50V, 500V |
| TEST VOLTAGE | 3 times of the rated voltage |
| CAPACITANCE | Within the tolerance at 1 MHz, 1±0.2 Vrms. 25°C |
| Q FACTOR | At 1 MHz, 1±0.2 Vrms. 25°C C≥30pFQ≥1,000 C<30pFQ≥400+20°C (C: Rated capacitance) |
| INSULATION RESISTANCE | 10,000 MΩmin. |

| Rated Volt. (VDC) | Temp. Char. | Capacitance | | Dimensions (mm) | | |
|-------------------|-----------------------------|-------------|----------------------------------|-----------------|-------|-----|
| | | Range (pF) | Tolerance | D Ø max | T max | F |
| 50 | CH 0±60 PPM/°C (NPO) | 0.5 ~ 47 | ±0.25pF & ±0.5pF (Under 10pF) | 5.5 | 3.5 | 5.0 |
| | | 50 ~ 75 | | 6.5 | | |
| | | 82 ~ 100 | | 7.5 | | |
| | | 120 ~ 150 | ±5% & ±10% (Over 10pF) | 8.5 | | |
| | | 180 ~ 270 | | 10.5 | | |
| | | 300 ~ 390 | | 12.5 | | |
| 50 | SL +350 ~ -1000PPM/°C | 10 ~ 120 | ±5% & ±10% | 5.5 | 3.5 | 5.0 |
| | | 150 ~ 240 | | 6.5 | | |
| | | 270 ~ 330 | | 7.5 | | |
| | | 360 ~ 470 | | 8.5 | | |
| | | 500 ~ 820 | | 10.5 | | |

CLASS II HIGH DIELECTRIC CONSTANT

FEATURES

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

SPECIFICATIONS

| | |
|----------------------------|--|
| RATED WORKING VOLTAGE | DC 50V, 500V |
| TEST VOLTAGE | 2.5 times of the rated voltage |
| CAPACITANCE | Within the tolerance at 1 MHz, 1±0.2 Vrms. 25°C |
| DISSIPATION FACTOR (tan δ) | Y5P, Z5U : tan δ ≤2.5% Z5V : tan δ ≤5% |
| INSULATION RESISTANCE | 10,000M Ω or 200M Ω μF, whichever is the smaller |

| Rated Volt. (VDC) | Temp. Char. | Capacitance | | Dimensions (mm) | | |
|-------------------|--------------------------|---------------|----------------------|-----------------|-------|-----|
| | | Range (pF) | Tolerance | D Ø max | T max | F |
| 50 | B ±10% | 100 ~ 2000 | ±10% & ±20% | 5.5 | 3.5 | 5.0 |
| | | 2200 . 2700 | | 6.5 | | |
| | | 3000 . 3300 | | 7.5 | | |
| | | 3900 . 4700 | | 8.5 | | |
| | | 5600 . 6800 | | 10.5 | | |
| | | 10000 | | | | |
| 50 | E +22 ~ -56% (Z5U) | 2200 . 3300 | ±20% & +80-20% | 5.5 | 3.5 | 5.0 |
| | | 4700 . 5000 | | 6.5 | | |
| | | 5600 . 6800 | | 7.5 | | |
| | | 8200 | | 8.5 | | |
| | | 10000 | | 10.5 | | |
| | | 12000 . 15000 | | | | |
| 50 | F +22 ~ -82% (Z5V) | 18000 . 20000 | +80-20% | 5.5 | 3.5 | 5.0 |
| | | 22000 . 30000 | | 6.5 | | |
| | | 33000 . 40000 | | 7.5 | | |
| | | | | 8.5 | | |
| | | | | 10.5 | | |

Note: Specification are subject to change without notice. For more detail and update, please visit our website.