

ALUMINUM ELECTROLYTIC CAPACITOR

5MM HEIGHT NON POLARIZE

Suntan®

DISCONTINUED

TS13D CD50BP

FEATURES

- Load life of 1000 hours at 85°C
- Bi-polar
- 5mm height



◆ Specifications

| ITEMS | | PERFORMANCE CHARACTERISTICS | | | | | | |
|-------------------------------------|--------------------|---|------|------|------|------|------|------|
| Temperature Range(°C) | | -40~+85 | | | | | | |
| Leakage Current(μA) | | Less than 0.03CV+3(25°C, after 5 minutes) C: Capacitance(μF), V: Voltage(V) | | | | | | |
| Capacitance Tolerance (25°C, 120Hz) | | 20% | | | | | | |
| Dissipation Factor (25°C, 120Hz) | Rated Voltage(V) | 6.3 | 10 | 16 | 25 | 35 | 50 | |
| | Tan δ | Φ4 | 0.35 | 0.30 | 0.25 | 0.20 | 0.20 | 0.20 |
| | | Φ5,6.3 | 0.30 | 0.25 | 0.20 | 0.15 | 0.15 | 0.15 |
| Load Life (+85°C) | Time | 1000 hours (with the polarity inverted every 250hrs) | | | | | | |
| | Leakage current | Initial specified value or less | | | | | | |
| | Capacitance Change | Within±20% of initial value | | | | | | |
| | Dissipation | 200% or less of initial specified value | | | | | | |

◆ Dimensions

mm

| ΦD | 4 | 5 | 6.3 |
|----|------|-----|-----|
| F | 1.5 | 2.0 | 2.5 |
| Φd | 0.45 | | |
| D | 1.0 | | |

◆ Multiplier for ripple current

Frequency coefficient

| Rated voltage(v) \ Freq(Hz) | 50,60 | 120 | 1K | 10K~100K |
|-----------------------------|-------|-----|-----|----------|
| 6.3~16 | 0.80 | 1 | 1.1 | 1.2 |
| 25~35 | 0.80 | 1 | 1.5 | 1.7 |
| 50 | 0.80 | 1 | 1.6 | 1.9 |

Temperature coefficient

| Temperature (°C) | +70 or less | +85 |
|------------------|-------------|-----|
| Factor | 1.35 | 1 |

◆ Standard ratings

| WV(v) \ Cap(μF) | 6.3 | | 10 | | 16 | | 25 | | 35 | | 50 | |
|-----------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|
| | Size(mm) ΦDxL | Ripple mArms | Size(mm) ΦDxL | Ripple mArms | Size(mm) ΦDxL | Ripple mArms | Size(mm) ΦDxL | Ripple mArms | Size(mm) ΦDxL | Ripple mArms | Size(mm) ΦDxL | Ripple mArms |
| 0.1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 4x5 | 2 |
| 0.22 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 4x5 | 3 |
| 0.33 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 4x5 | 4 |
| 0.47 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 4x5 | 5 |
| 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 4x5 | 7 |
| 2.2 | -- | -- | -- | -- | -- | -- | -- | -- | 4x5 | 11 | 5x5 | 14 |
| 3.3 | -- | -- | -- | -- | -- | -- | 4x5 | 13 | 5x5 | 17 | 6.3x5 | 20 |
| 4.7 | -- | -- | -- | -- | 4x5 | 14 | 5x5 | 21 | 6.3x5 | 24 | 6.3x5 | 24 |
| 10 | -- | -- | 4x5 | 18 | 5x5 | 26 | 6.3x5 | 35 | 6.3x5 | 35 | -- | -- |
| 22 | 5x5 | 31 | 6.3x5 | 40 | 6.3x5 | 45 | -- | -- | -- | -- | -- | -- |
| 33 | 6.3x5 | 45 | 6.3x5 | 49 | -- | -- | -- | -- | -- | -- | -- | -- |
| 47 | 6.3x5 | 54 | 6.3x5 | 59 | -- | -- | -- | -- | -- | -- | -- | -- |

Ripple Current: 85°C, 120Hz

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