

ALUMINUM ELECTROLYTIC CAPACITOR

Suntan®

FOR ENERGY LAMP - 105°C 8000-10000HOURS

TS13D CD11GE



FEATURES

105°C 8000-10000 hours

◆ Specifications

| ITEMS | | PERFORMANCE CHARACTERISTICS | | | | | |
|----------------------|--|---|------|------|---|-----|-----|
| Rated Voltage | DC160~450V | | | | | | |
| Capacitance | ±20% | | | | | | |
| Dissipation Factor | Rated Voltage (V) | 160 | 200 | 250 | 350 | 400 | 450 |
| | Tan δ | 0.08 | 0.08 | 0.08 | 0.08 | 0.8 | 0.1 |
| Leakage Current | Rated Voltage (V) | 160~400V | | | 450V | | |
| | Leakage Current | I _c ≤ 0.02CV + 10 μA (160~400V) after 2minutes | | | I _c ≤ 0.03CV + 10 μA (160~400V) after 2minutes | | |
| Load Life (105°C) | After application of the voltage at 105°C 8000-10000hours, the capacitors shall meet the below requirement | | | | | | |
| | Time | 105°C 8000-10000hours | | | | | |
| | Leakage Current | Not more than the specified value. | | | | | |
| | Capacitance Change | Within ±20% of the initial value | | | | | |
| Shelf Life (105±2°C) | After leaving capacitors under no load at 105°C for 8000 hours, capacitors shall meet the specified value for load life characteristics listed above | | | | | | |

◆ Dimensions

mm

| ΦD | 8 | 10 | 12,13 | 16 | 18,19 | 22 |
|----|-----|-----|-------|-----|-------|------|
| Φd | 0.5 | 0.6 | 0.6 | 0.8 | 0.8 | 0.8 |
| P | 3.5 | 5.0 | 5.0 | 7.5 | 7.5 | 10.5 |

| a Max | D<18 | D=18 | | D>18 |
|-------|-----------|--------|--------|-----------|
| | +1.5 -1.0 | L<35.5 | L≥35.5 | +2.0 -1.0 |
| β Max | D<18 | | | 0.5 |
| | D≥18 | | | 1.0 |

◆ Multiplier for ripple current

Frequency coefficient factor for ripple current

| Frequency | 120Hz | 1KHz | 10KHz | 100KHz |
|------------|-------|------|-------|--------|
| W.V Factor | | | | |
| 160-450 | 0.5 | 0.8 | 0.9 | 1.00 |

◆ Case Size DxL(mm) Ripple current (mA, 105°C/120Hz)

| Cap/μF | 160 | | 200 | | 250 | | 350 | | 400 | | 450 | |
|--------|--------|------|--------|------|--------|------|-------|-----|---------|------|-------|-----|
| | (1) | (2) | (1) | (2) | (1) | (2) | (1) | (2) | (1) | (2) | (1) | (2) |
| 1.0 | 6.3x12 | 90 | 6.3x12 | 90 | 6.3x12 | 90 | 8x12 | 100 | 10x12 | 100 | 8x16 | 100 |
| 1.5 | 6.3x12 | 100 | 6.3x12 | 100 | 8x12 | 110 | 8x12 | 110 | 10x12 | 110 | 10x12 | 110 |
| 1.8 | 6.3x12 | 110 | 6.3x12 | 110 | 8x12 | 120 | 8x16 | 120 | 10x12 | 120 | 10x12 | 120 |
| 2.2 | 6.3x12 | 120 | 6.3x12 | 120 | 8x12 | 140 | 8x16 | 130 | 10x16 | 130 | 10x16 | 130 |
| 2.8 | 8x12 | 130 | 8x12 | 130 | 10x12 | 160 | 10x12 | 150 | 10x16 | 150 | 10x16 | 130 |
| 3.3 | 8x12 | 150 | 8x12 | 150 | 10x12 | 180 | 10x17 | 160 | 10x17 | 160 | 10x17 | 140 |
| 4.7 | 10x12 | 170 | 10x12 | 180 | 10x12 | 200 | 10x17 | 180 | 10x20 | 180 | 10x20 | 150 |
| 5.6 | 8x16 | 190 | 8x16 | 190 | 8x16 | 230 | 10x20 | 200 | 12x20 | 200 | 12x20 | 160 |
| 6.8 | 8x16 | 200 | 8x16 | 200 | 10x16 | 250 | 10x20 | 220 | 12x20 | 220 | 12x20 | 170 |
| 8.2 | 10x16 | 250 | 10x16 | 250 | 10x16 | 260 | 12x20 | 260 | 12.5x20 | 260 | 12x20 | 280 |
| 10 | 10x16 | 280 | 10x17 | 280 | 10x20 | 280 | 13x20 | 280 | 13x20 | 280 | 13x20 | 330 |
| 15 | 10x16 | 440 | 10x20 | 450 | 12x20 | 480 | 13x20 | 300 | 13x25 | 350 | 13x25 | 430 |
| 22 | 10x20 | 520 | 12x20 | 520 | 13x20 | 620 | 13x25 | 370 | 16x25 | 450 | 16x30 | 570 |
| 33 | 13x20 | 520 | 13x20 | 620 | 13x25 | 620 | 16x25 | 520 | 16x30 | 660 | 16x35 | 710 |
| 47 | 13x25 | 680 | 13x25 | 680 | 16x25 | 720 | 16x30 | 680 | 18x35 | 860 | 18x35 | 890 |
| 68 | 16x20 | 780 | 16x25 | 780 | 16x30 | 920 | 16x35 | 870 | 18x35 | 1100 | -- | -- |
| 100 | 16x25 | 1140 | 16x30 | 1140 | 18x30 | 1250 | -- | -- | -- | -- | -- | -- |
| 150 | 18x30 | 1380 | 18x35 | 1480 | -- | -- | -- | -- | -- | -- | -- | -- |

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