

Jamicon Series : EP

Teapo Series : EP

High voltage · Long life Series

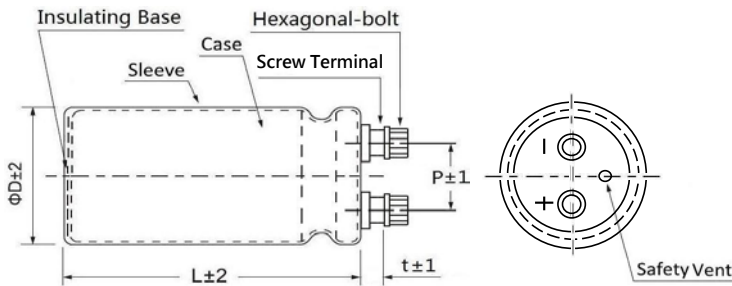


- Endurance: 105°C 10000hours
- Recommended Applications : UPS · service system · press working equipment · charging equipment · inverter · converter
- Corresponding product to RoHS

■ SPECIFICATIONS

| Item | Characteristics | | | |
|--|--|---------------------------------------|------|------|
| Category Temperature Range | -40 ~ +105°C | | | |
| Rated Voltage Range | 350 ~ 450VDC | | | |
| Rated Capacitance Range | 1000 ~ 15000 μ F | | | |
| Capacitance Tolerance | $\pm 20\%$ (120Hz, 20°C) | | | |
| Leakage Current (20°C) | I $\leq 0.02CV$ or 5mA whichever is greater. (After rated voltage applied for 5 minutes) I : Max. leakage current (μ A), C : Nominal capacitance (μ F), V : Rated voltage (V) | | | |
| Dissipation Factor(MAX) (tan δ) (120Hz, 20°C) | WV | 350 | 400 | 450 |
| | tan δ | 0.15 | 0.15 | 0.15 |
| Low Temperature Stability Impedance Ratio (MAX) | Measurement frequency : 120Hz | | | |
| | Rated voltage(V) Z-25°C / Z+20°C | 350~450 8 | | |
| Endurance | After applying rated voltage with ripple current for 10000 hours at 105°C, the capacitors shall meet the following requirements. | | | |
| | Capacitance change | Within $\pm 20\%$ of initial value | | |
| | D.F. (tan δ) | Not more than 200% of specified value | | |
| Shelf Life | After placed at 105°C without voltage applied for 1000 hours, the capacitor shall meet the same requirements as Endurance. | | | |

■ Dimensions [mm]



| ΦD | P | t | Hexagonal-bolt |
|----|------|-----|----------------|
| 51 | 22.2 | 6.3 | M5 × 0.8 × 10 |
| 64 | 28.5 | 6.3 | M5 × 0.8 × 10 |
| 77 | 31.8 | 5.8 | M5 × 0.8 × 10 |
| 90 | 31.6 | 5.8 | M6 × 1.0 × 10 |

■ Multiplier for Ripple Current

| Freq. (Hz) | 60(50) | 120 | 300 | 1K | $\geq 10K$ |
|-------------|--------|------|------|------|------------|
| coefficient | 0.70 | 1.00 | 1.10 | 1.30 | 1.40 |

| Temperature | 40 | 60 | 85 | 105 |
|-------------|------|------|------|------|
| coefficient | 2.44 | 2.16 | 2.00 | 1.00 |

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■ STANDARD RATINGS

| Rated Voltage (SurageVoltage) (V) | Cap (μ F) | Case size Φ DxL(mm) | $\tan \delta$ | Ripple current (A/rms105°C) (120Hz) | Rated Voltage (SurageVoltage) (V) | Cap (μ F) | Case size Φ DxL(mm) | $\tan \delta$ | Ripple current (A/rms105°C) (120Hz) |
|---|-------------------|-----------------------------|---------------|---|---|-------------------|-----------------------------|---------------|---|
| 350 (400) | 1000 | 51x75 | 0.15 | 5.6 | 400 (450) | 3900 | 77x115 | 0.15 | 15.3 |
| | 1200 | 51x75 | 0.15 | 6.1 | | 4700 | 64x195 | 0.15 | 19.8 |
| | 1500 | 51x96 | 0.15 | 7.6 | | | 77x130 | 0.15 | 17.7 |
| | 1800 | 51x96 | 0.15 | 8.3 | | 5600 | 64x195 | 0.15 | 21.6 |
| | 2200 | 51x130 | 0.15 | 10.5 | | | 77x155 | 0.15 | 20.9 |
| | 2700 | 64x96 | 0.15 | 10.9 | | 6800 | 90x157 | 0.15 | 23.7 |
| | 3300 | 64x115 | 0.15 | 13.1 | | 8200 | 90x157 | 0.15 | 26.1 |
| | 3900 | 64x130 | 0.15 | 15.0 | | 10000 | 90x196 | 0.15 | 31.8 |
| | 4700 | 64x155 | 0.15 | 17.8 | | 12000 | 90x236 | 0.15 | 37.8 |
| | | 77x115 | 0.15 | 16.8 | | 450 (500) | 1000 | 51x96 | 0.15 |
| | 5600 | 64x195 | 0.15 | 21.6 | 1200 | | 51x115 | 0.15 | 7.4 |
| | | 77x130 | 0.15 | 19.3 | 1500 | | 51x130 | 0.15 | 8.7 |
| | 6800 | 77x144 | 0.15 | 22.3 | 1800 | | 64x115 | 0.15 | 9.7 |
| | 8200 | 90x157 | 0.15 | 26.1 | 2200 | | 64x115 | 0.15 | 10.7 |
| | 10000 | 90x157 | 0.15 | 28.8 | 2700 | | 64x130 | 0.15 | 12.5 |
| 12000 | 90x196 | 0.15 | 34.8 | 77x115 | | | 0.15 | 12.7 | |
| 15000 | 90x236 | 0.15 | 42.3 | 3300 | 64x155 | | 0.15 | 14.9 | |
| 400 (450) | 1000 | 51x75 | 0.15 | | 5.6 | | 77x130 | 0.15 | 14.8 |
| | 1200 | 51x96 | 0.15 | 6.8 | 3900 | | 64x195 | 0.15 | 18 |
| | 1500 | 51x115 | 0.15 | 8.2 | 4700 | | 77x155 | 0.15 | 19.1 |
| | 1800 | 51x130 | 0.15 | 9.5 | 5600 | | 77x195 | 0.15 | 23.20 |
| | 2200 | 64x96 | 0.15 | 9.7 | | | 90x157 | 0.15 | 21.50 |
| | 2700 | 64x115 | 0.15 | 11.8 | 6800 | | 90x196 | 0.15 | 26.2 |
| | 3300 | 64x130 | 0.15 | 13.8 | 8200 | | 90x196 | 0.15 | 28.8 |
| | 3900 | 64x155 | 0.15 | 16.2 | 10000 | 90x236 | 0.15 | 34.5 | |