

Jamicon Series : TH

Teapo Series : TH High Ripple Series

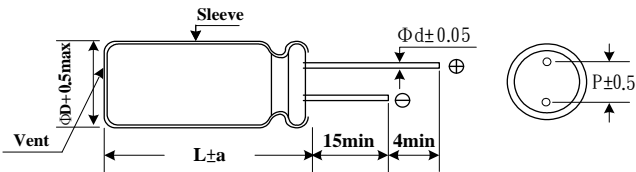
- Endurance: 105°C 3000 hours
- Recommended Applications : AV(TV, Video, Audio); Monitor/Computer; OA/HA/Communication; Converter/Inverter; Energy saving lamp; PFC circuit; SMPS; Ballast; Adapter
- Corresponding product to RoHS



SPECIFICATIONS

| Item | Characteristics | |
|--|--|--|
| Category Temperature Range | -40~+105°C | -25~+105°C |
| Rated Voltage Range | 160 ~ 400VDC | 420~450VDC |
| Rated Capacitance Range | 2.2 ~ 220 µ F | |
| Capacitance Tolerance | ± 20 % (120Hz , 20°C) | |
| Leakage Current (20°C) | I=0.06CV +10 µ A (After rated voltage applied for 2 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 | 160 200 250 350 400 420~450 |
| | tan δ | 0.15 0.15 0.15 0.24 0.24 0.24 |
| Low Temperature Stability Impedance Ratio (MAX) | Z (120Hz) | 160~250 400 420~450 |
| | Z(-25°C) / Z(20°C) | 3 5 6 |
| | Z(-40°C) / Z(20°C) | 4 6 — |
| Endurance | After applying rated voltage with rated ripple current for 2000 (≥10 φ 3000) hours at 105°C, the capacitors shall meet the following requirements. | |
| | Capacitance change | Within ± 20% of initial value |
| | D.F. (tan δ) | Not more than 200% of specified value |
| Shelf Life | After leaving capacitors under no load at 105°C for 1000 hours, the capacitors shall meet the same requirement as Endurance. | |

Dimensions [mm]



| | | | | |
|-----|-----|------|-----|-----|
| Φ D | 10 | 12.5 | 16 | 18 |
| P | 5.0 | 5.0 | 7.5 | 7.5 |
| Φ d | 0.6 | 0.6 | 0.8 | 0.8 |
| a | 1.5 | 2.0 | 2.0 | 2.0 |

Notes : (): L ≥ 30mm

Multiplier for Ripple Current

| | | | | |
|---------------|---------|-----|------|------|
| Freq. (Hz) | 120 | 1k | 10k | 100k |
| | 160~450 | 0.5 | 0.80 | 0.90 |

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■ STANDARD RATINGS

| Rated Voltage (SurageVoltage) (V) | Cap (μ F) | Case size Φ DxL(mm) | Ripple current (mA/rms105°C) (100kHz) | Impedance (Ω ,20°C) (100KHz) | Rated Voltage (SurageVoltage) (V) | Cap (μ F) | Case size Φ DxL(mm) | Ripple current (mA/rms105°C) (100kHz) | Impedance (Ω ,20°C) (100KHz) |
|---|-------------------|-----------------------------|---|--|---|-------------------|-----------------------------|---|--|
| 160v (200) | 10 | 10x16 | 220 | 1.47 | 250v (300) | 100 | 18x36 | 1110 | 0.59 |
| | 22 | 10x20 | 350 | 0.80 | | 220 | 18x40 | 1730 | 0.31 |
| | 33 | 10x20 | 430 | 0.62 | 400v (450) | 3.3 | 10x20 | 170 | 2.6 |
| | 47 | 12.5x20 | 550 | 0.50 | | 4.7 | 10x25 | 220 | 2.2 |
| | 68 | 12.5x20 | 660 | 0.39 | | 10 | 12.5x25 | 340 | 1.72 |
| | 100 | 16x25 | 890 | 0.32 | | 22 | 16x25 | 510 | 0.94 |
| | 220 | 16x36 | 1540 | 0.17 | | 33 | 16x32 | 690 | 0.73 |
| 200v (250) | 10 | 10x16 | 220 | 1.47 | | 47 | 16x32 | 820 | 0.59 |
| | 22 | 10x20 | 350 | 0.80 | | 68 | 16x32 | 990 | 0.46 |
| | 33 | 12.5x20 | 460 | 0.62 | | 100 | 18x32 | 1280 | 0.38 |
| | 47 | 12.5x25 | 610 | 0.50 | 120 | 18x36 | 1480 | 0.32 | |
| | 68 | 12.5x25 | 730 | 0.39 | 150 | 18x40 | 1740 | 0.26 | |
| | 100 | 16x32 | 980 | 0.32 | 180 | 18x40 | 1910 | 0.23 | |
| | 220 | 18x36 | 1640 | 0.17 | 450v (500) | 2.2 | 10x16 | 110 | 4.94 |
| 250v (300) | 4.7 | 10x16 | 150 | 3.45 | | 3.3 | 10x20 | 150 | 4.11 |
| | 10 | 10x20 | 240 | 2.70 | | 4.7 | 12.5x20 | 190 | 3.47 |
| | 22 | 12.5x20 | 380 | 1.47 | | 10 | 12.5x25 | 300 | 2.72 |
| | 33 | 12.5x25 | 510 | 1.15 | | 22 | 16x32 | 500 | 1.48 |
| | 47 | 16x25 | 610 | 0.92 | | 33 | 16x32 | 620 | 1.15 |
| | 68 | 16x32 | 810 | 0.71 | | 47 | 18x32 | 780 | 0.92 |