

Jamicon Series : FR

Teapo Series : FR

High Ripple & low ESR Series

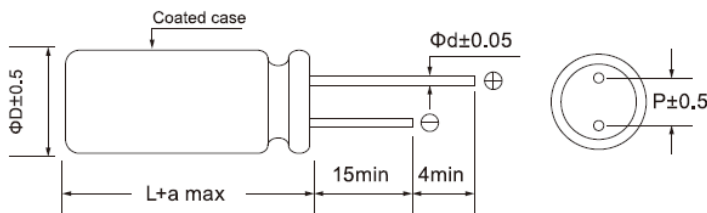
- Endurance:105°C,2000hrs
- Recommended Applications: High ripple & low ESR Series
- Corresponding product to RoHS



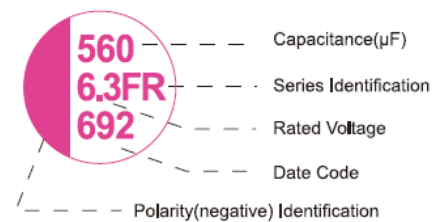
Specifications

| Item | Characteristics | |
|---|---|---|
| Category Temperature Range | -55 ~ +105°C | |
| Rated Voltage Range | 2.5~6.3VDC | |
| Rated Capacitance Range | 270~ 2700 μF | |
| Capacitance Tolerance | ± 20 % (120Hz , 20°C) | |
| Surge Voltage | Rated voltage (V) x 1.15 | |
| Leakage Current (20°C) | I ≤ 0.2CV or 300(μ A)whichever is greater (After rated voltage applied for 2 minutes) I : Leakage Current (μ A) C : Capacitance(μ F) V : Rated Voltage Range(VDC) | |
| Dissipation Factor (MAX) (tan δ) (120Hz ,20°C) | WV | 2.5~6.3 |
| | tan δ | 0.10 |
| Temperature characteristic Impedance ratio (MAX) | Z(100KHz) / WV | 2.5 ~ 6.3V |
| | Z-25°C / Z+20°C | ≤ 1.15 |
| | Z-55°C / Z+20°C | ≤ 1.25 |
| Endurance | After applying rated voltage for 2000 hours at 105°C , the capacitor shall meet the following requirement ° | |
| | Appearance | No significant damage |
| | Capacitance Change | Within ±20% of the initial value |
| | Dissipation Factor | Not more than 150% of the initial specified value |
| | Equivalent Series Resistance | Not more than 150% of the initial specified value |
| Leakage Current | Not more than the initial specified value | |
| Humidity Test | after subjecting 90 to 95% RH for 1000 hours at 60°C , the capacitors shall meet the requirement as Endurance ° | |
| Surge voltage test | After subjecting to 1000 cycles each consisting of charge with the surge voltage specified at normal temperature for 30 seconds through a protective resistor and discharge for 5 minutes 30 seconds,the capacitors shall meet the requirement as Endurance | |
| Failure rate(MAX) | 1%per 1,000 hours(confidence level 60% at 105°C) | |

Diagram of Dimensions



Marking : case with red printing



| SIZE | ΦD X L | P | φ d | a |
|------|---------|-----|----------|-----|
| E08 | 6.3X8 | 2.5 | 0.5or0.6 | 1.0 |
| E11 | 6.3x11 | 2.5 | 0.5 | 1.0 |
| G08 | 8X8 | 3.5 | 0.6 | 1.5 |
| G1B | 8X11.5 | 3.5 | 0.6 | 1.0 |
| H1C | 10X12.5 | 5.0 | 0.6 | 1.0 |

Multiplier for Ripple Current

| Frequency(HZ) | 120 ≤ F < 1K | 1K ≤ F < 10K | 10K ≤ F < 100K | 100K ≤ F ≤ 500K |
|---------------|--------------|--------------|----------------|-----------------|
| Coefficient | 0.05 | 0.30 | 0.70 | 1.00 |

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■Dimensions,Rated Ripple Current,Equivalent Series Resistance

| Rated (Surge) Voltage(V) | Capacitance (μ F) | SIZE Φ D \times L(mm) | RIPPLE (mA/rms,105 $^{\circ}$ C 100kHz) | ESR (m Ω ,20 $^{\circ}$ C 100kHz) | Rated (Surge) Voltage(V) | Capacitance (μ F) | SIZE Φ D \times L(mm) | RIPPLE (mA/rms,105 $^{\circ}$ C 100kHz) | ESR (m Ω ,20 $^{\circ}$ C 100kHz) |
|----------------------------|-------------------------|------------------------------|---|--|----------------------------|-------------------------|------------------------------|---|--|
| 2.5 (2.88) | 560 | 6.3x8 | 5000 | 7 | 4 (4.6) | 1200 | 8x8 | 6100 | 7 |
| | | 8x8 | 6100 | 7 | | 1500 | 8x11.5 | 6100 | 7 |
| | 680 | 8x8 | 6100 | 7 | | 1800 | 10x12.5 | 6500 | 9 |
| | | 8x11.5 | 6100 | 7 | 6.3 (7.25) | 270 | 6.3x8 | 4700 | 8 |
| | 820 | 6.3x8 | 5000 | 7 | | 330 | 6.3x8 | 4700 | 8 |
| | | 8x8 | 6100 | 7 | | 470 | 6.3x8 | 4700 | 8 |
| | 1000 | 8x11.5 | 6100 | 7 | | 560 | 8x8 | 5700 | 8 |
| | | 8x8 | 6100 | 7 | | 680 | 6.3x8 | 4700 | 8 |
| | 1500 | 8x11.5 | 6100 | 7 | | | 8x8 | 5700 | 8 |
| | | 2700 | 8x11.5 | 6100 | | 7 | 8x8 | 5700 | 8 |
| 10x12.5 | 5600 | | 8 | 8x11.5 | | 5700 | 7 | | |
| 4 (4.6) | 560 | 6.3x8 | 5000 | 7 | | 820 | 8x8 | 5700 | 8 |
| | | 8x8 | 6100 | 7 | | 1000 | 8x11.5 | 5700 | 7 |
| | | 8x11.5 | 6100 | 7 | 8x8 | | 5700 | 8 | |
| | 680 | 8x8 | 6100 | 7 | 1500 | 8x11.5 | 5700 | 7 | |
| | | 8x11.5 | 6100 | 7 | | 10x12.5 | 6100 | 7 | |
| | 1000 | 8x8 | 6100 | 7 | 10x12.5 | 8x11.5 | 5700 | 7 | |
| | | | 6100 | 7 | | 6100 | 7 | | |
| | | 8x11.5 | 6100 | 7 | | | | | |
| | | | 6100 | 7 | | | | | |
| | | | 6100 | 7 | | | | | |