

RR Series

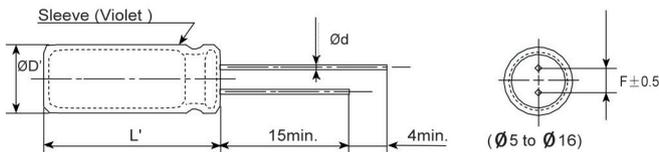
- High frequency, low impedance, high reliability
- Lifetime +105°C2,000 hours
- Suitable for switching power, UPS, power sources etc.
- RoHS Compliant



◆ SPECIFICATIONS

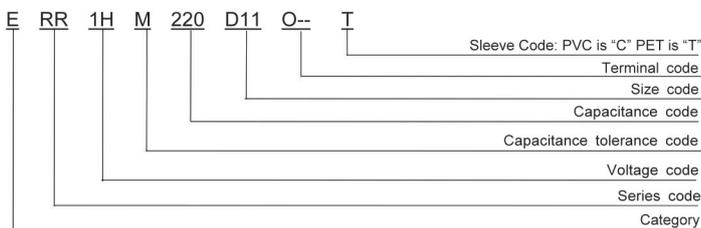
| Items | Characteristics | | | | | | | |
|--|--|---|------|------|------|------|------|-------------|
| Category | -40 to +105°C | | | | | | | |
| Temperature Range | -40 to +105°C | | | | | | | |
| Rated Voltage Range | 6.3 to 50V _{dc} | | | | | | | |
| Capacitance Tolerance | ±20%(M) (at 20°C, 120Hz) | | | | | | | |
| Leakage Current | I ≤ 0.01CV or 3μA, whichever is greater. Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C after 1 minute) | | | | | | | |
| Dissipation Factor (tanδ) | Rated voltage (V _{dc}) | 6.3 | 10 | 16 | 25 | 35 | 50 | |
| | tanδ (Max.) | 0.22 | 0.18 | 0.14 | 0.12 | 0.10 | 0.08 | |
| | When nominal capacitance exceeds 1,000μF, add 0.02 to the value above for each 1,000μF increase (at 20°C, 120Hz) | | | | | | | |
| Low Temperature Characteristics (Max. Impedance Ratio) | Rated voltage (V _{dc}) | 6.3 | 10 | 16 | 25 | 35 | 50 | |
| | Z(-25°C)/Z(+20°C) | | | | | | 2 | (at, 120Hz) |
| | Z(-40°C)/Z(+20°C) | | | | | | 3 | |
| Endurance | The following specification shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated ripple current is applied for 2000hours at 105°C. | | | | | | | |
| | Capacitance change | ≤ ±20% of the initial value(6.3V,10V: ≤ ±30%) | | | | | | |
| | D.F. (tanδ) | ≤200% of the initial specified value | | | | | | |
| | Leakage current | ≤The initial specified value | | | | | | |
| Shelf Life | The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1000 hours at 105°C without voltage applied. | | | | | | | |
| | Capacitance change | ≤ ±20% of the initial value(6.3V,10V: ≤ ±30%) | | | | | | |
| | D.F. (tanδ) | ≤200% of the initial specified value | | | | | | |
| | Leakage current | ≤200%The initial specified value | | | | | | |

◆ DIMENSIONS [mm]



| ØD | 5 | 6.3 | 8 | 10 | 12.5 | 16 |
|-----|------------|-----|-----|-----|------|-----|
| Ød | 0.5 | 0.5 | 0.5 | 0.6 | 0.6 | 0.8 |
| F | 2.0 | 2.5 | 3.5 | 5.0 | 5.0 | 7.5 |
| ØD' | ØD+0.5max. | | | | | |
| L' | L+2max. | | | | | |

◆ PART NUMBER SYSTEM



※ Sleeve Code and Terminal Code should follow the part number system

◆ RATED RIPPLE CURRENT MULTIPLIERS

Frequency correction factor for ripple current

| Cap(μF) \ Freq.(Hz) | 120 | 1k | 10k | 100k |
|---------------------|------|------|------|------|
| Cap.<220 | 0.40 | 0.75 | 0.90 | 1.00 |
| 220≤Cap.<680 | 0.50 | 0.85 | 0.94 | 1.00 |
| 680≤Cap.<2200 | 0.60 | 0.87 | 0.95 | 1.00 |
| 2200≤Cap.<4700 | 0.75 | 0.90 | 0.95 | 1.00 |
| Cap.≥4700 | 0.85 | 0.95 | 0.98 | 1.00 |

The endurance of capacitors is shorted with internal heating produced by ripple current at the rate of halving the lifetime with every 5°C rise. When long life performance is required in actual use, the rms ripple current has to be reduced.

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