

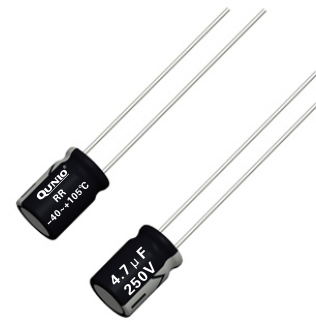
RR Series

+105°C, High Ripple Current(高纹波), Long Life(长寿命)

◆ FEATURES

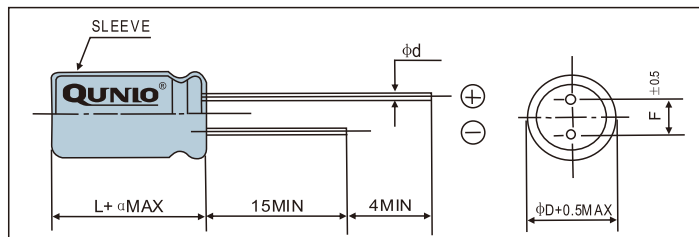
- Load life: 105°C 5000 hours
- For Electronic Ballast
- High Ripple Current

◆ SPECIFICATIONS



| Items | Characteristics | | | | | | | |
|--|---|---|------|------|------|------|------|--|
| Category Temperature Range | -40°C~+105°C | | | | | | | |
| Rated Voltage Range | 160~450V.DC | | | | | | | |
| Nominal Capacitance Range | 1~220 μ F | | | | | | | |
| Capacitance Tolerance | ±20%(120Hz,+20°C) | | | | | | | |
| Leakage Current(MAX) | I=0.02CV +10(μA) after 2 minutes with rated working voltage at 20 °C | | | | | | | |
| Dissipation Factor(MAX) Tan δ (+20°C, 120Hz) | Rated Voltage(V) | 160 | 200 | 250 | 350 | 400 | 450 | |
| | Tan δ | 0.15 | 0.15 | 0.15 | 0.20 | 0.20 | 0.20 | |
| Load Life | After applying rated voltage with max ripple current for 5000hrs at 105°C, the capacitors shall meet the following requirements | | | | | | | |
| | Capacitance Change | Within ±20% of the initial value | | | | | | |
| | Dissipation Factor | Not more than 200% of the specified value | | | | | | |
| Shelf Life | After Leaving capacitors under no load at 85°C for 1000hrs, they meet the characteristic requirements listed at right | | | | | | | |
| | Capacitance Change | Within ±20% of the initial value | | | | | | |
| | Tan δ | ≤ 200% of initial specified value | | | | | | |
| Low Temperature Stability Impedance Rate(MAX) | Rated Voltage(V) | 160 | 200 | 250 | 350 | 400 | 450 | |
| | Z-25°C/Z+20°C | 3 | 3 | 3 | 5 | 5 | 5 | |
| | Z-40°C/Z+20°C | 6 | 6 | 6 | 6 | 6 | 6 | |
| Others | JISC-5141 EIAJ RC-2372 | | | | | | | |

◆ CASE SIZE TABLE



| φ D | 8 | 10 | 13 | 16 | 18 |
|-----|-----------------|-----|-----|-----------------|-----|
| F | 3.5 | 5.0 | 5.0 | 7.5 | 7.5 |
| φ d | 0.5 | 0.6 | 0.6 | 0.8 | 0.8 |
| α | L ≤ 16: α = 1.5 | | | L ≥ 20: α = 2.0 | |

◆ RIPPLE CURRENT MULTIPLIER

- Frequency coefficient

| Frequency (Hz) | 120 | 1K | 10K | 100K~ |
|----------------|------|------|------|-------|
| ≤ 180 | 0.40 | 0.75 | 0.90 | 1.00 |
| 220~ | 0.50 | 0.85 | 0.94 | 1.00 |

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◆ STANDARD RATINGS

size: $\Phi D \times L$ (mm)

| Voltage | | 160V (2C) | | 200V (2D) | | 250v (2E) | |
|---------------|------|----------------|--------|----------------|--------|-----------|--------|
| Cap(μ F) | Code | Size | Ripple | Size | Ripple | Size | Ripple |
| 4.7 | 4R7 | | | | | 8×12 | 160 |
| 6.8 | 6R8 | | | | | 10×13 | 250 |
| 10 | 100 | 10×16 | 320 | 10×16 | 320 | 10×16 | 320 |
| 22 | 220 | 10×20 | 500 | 10×20 | 500 | 10×20 | 500 |
| 33 | 330 | 10×20 | 650 | 10×20 | 650 | 13×21 | 800 |
| 47 | 470 | 10×20 | 750 | 13×21 | 980 | 13×21 | 980 |
| 68 | 680 | 13×21 | 1180 | 13×25 16×20 | 1300 | 16×20 | 1300 |
| 82 | 820 | | | 16×20 | 1380 | 16×20 | 1380 |
| 100 | 101 | 13×25 16×20 | 1420 | 16×20 | 1420 | 16×25 | 1530 |
| 150 | 151 | 16×25 | 1890 | 16×25 | 1890 | 16×25 | 1940 |
| 220 | 221 | 18×25 | 2370 | | | | |

| Voltage | | 350V (2V) | | 400V (2G) | | 450V (2W) | |
|---------------|------|-----------|--------|----------------|------------|-----------|--------|
| Cap(μ F) | Code | Size | Ripple | Size | Ripple | Size | Ripple |
| 1 | 010 | | | 8×12 10×13 | 60 70 | | |
| 1.5 | 1R5 | | | 8×12 10×13 | 90 100 | | |
| 1.8 | 1R8 | | | 8×12 10×13 | 95 120 | | |
| 2.2 | 2R2 | | | 8×12 10×13 | 95 140 | | |
| 3.3 | 3R3 | | | 10×13 10×16 | 150 180 | | |
| 4.7 | 4R7 | 10×13 | 150 | 10×16 | 220 | 10×20 | 220 |
| 5.6 | 5R6 | 10×13 | 180 | 10×16 | 250 | 10×20 | 250 |
| 6.8 | 6R8 | 10×16 | 280 | 10×16 | 280 | 10×20 | 280 |
| 10 | 100 | 10×20 | 350 | 10×20 | 350 | 13×21 | 450 |
| 15 | 150 | | | 13×21 | 550 | 13×25 | 600 |
| 22 | 220 | 13×21 | 650 | 13×25 16×20 | 760 | 16×20 | 730 |
| 33 | 330 | 16×20 | 900 | 16×20 | 900 | 16×25 | 980 |
| 47 | 470 | 16×20 | 1080 | 16×25 18×20 | 1180 | 18×25 | 1200 |
| 68 | 680 | 18×25 | 1470 | 18×25 | 1470 | | |
| 82 | 820 | 18×25 | 1530 | | | | |

Maximum Allowable Ripple Current(mA rms) at 105°C 100KHz

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