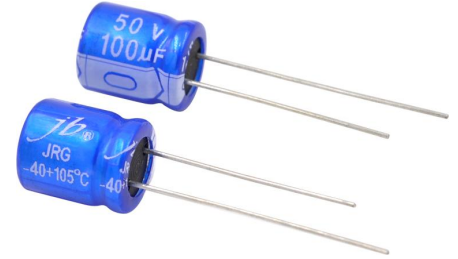


Radial Aluminum Electrolytic Capacitor – JRG

EXTREMELY LOW IMPEDANCE, LONG LIFE

- 4000~10000 hours load life at 105°C
- Suitable for long life applications
- Comply with the RoHS directive



SPECIFICATIONS

| | | | | | | | |
|-------------------------------------|--|--|--|--|--|--|--|
| Operating Temperature Range (°C) | -40°C ~ +105°C | | | | | | |
| Voltage Range (V) | 6.3 ~ 63V | | | | | | |
| Capacitance Range (µF) | 0.47 ~ 18000 µF | | | | | | |
| Capacitance Tolerance (20°C, 120Hz) | ±20% at 120Hz, 20°C | | | | | | |
| Leakage Current (µA) | Leakage current = 0.01CV or 3µA, whichever is greater (after 2 minutes application of rated voltage) | | | | | | |
| Dissipation Factor (tan δ) | Measurement frequency : 120Hz, Temperature : 20°C | | | | | | |

| | | | | | | | |
|-------------------|------|------|------|------|------|------|------|
| Rated Voltage (V) | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 |
| Tan δ (max) | 0.22 | 0.19 | 0.16 | 0.14 | 0.12 | 0.10 | 0.09 |

Stability at Low Temperature

Measurement frequency : 120Hz

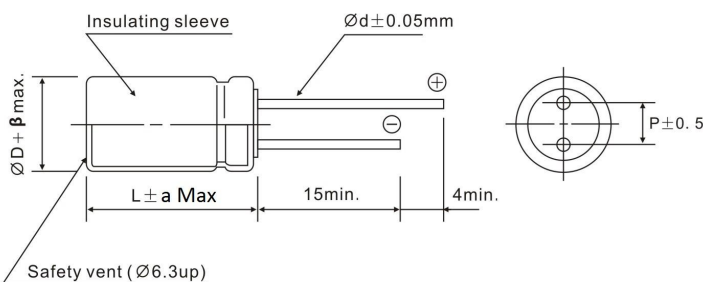
| | | | | | |
|-------------------|------------------------|------|----|----|---------|
| Rated Voltage (V) | | 6.3. | 10 | 16 | 25 - 63 |
| Impedance Ratio | Z(-25°C) / Z (20 °C) | 4 | 3 | 2 | 2 |
| | Z(-40°C) / Z(20°C) | 8 | 6 | 4 | 3 |

Load Life After 10000 hours 【Ø5 x 15mm for 5000 hours, Ø5 ~ Ø6.3 and WV≦ 10 products are for 4000 hours, Ø8 ~ Ø10 and WV≦ 10 products are for 6000 hours , Ø13 and WV≦10 products are for 8000 hours, Ø8 ~ Ø10 and WV≧16 products are for 7000 hours, Ø≧13 and WV≧ 16 products are for 10000 hours】 application of the rated voltage at 105°C , they meet the characteristics listed below.

| | |
|--------------------|--------------------------------------|
| Capacitance Change | Within±25% of initial measured value |
| Dissipation Factor | ≦200% of initial specified value |
| Leakage Current | ≦initial specified value |

Shelf life After leaving capacitors under no load at 105°C for 1000 hours, they meet the specified value for load life characteristics listed above.

DRAWING (Unit: mm)



| | | | | | | | | |
|----|-----|-----|------------|----------|-----|-----|-----|----|
| ØD | 5 | 6.3 | 8 (L≤11.5) | 8 (L≥16) | 10 | 13 | 16 | 18 |
| P | 2.0 | 2.5 | 3.5 | | 5.0 | | 7.5 | |
| Ød | 0.5 | | | 0.6 | | 0.8 | | |

| | | | |
|-------|-----------|-----------|-----------|
| a Max | D < 18 | D = 18 | |
| | +1.5 -1.0 | L < 35.5 | L ≥ 35.5 |
| | | +1.5 -1.0 | +2.0 -1.0 |

| | | |
|-------|--------|-----|
| β Max | D < 18 | 0.5 |
| | D ≥ 18 | 1.0 |

FREQUENCY COEFFICIENT OF ALLOWABLE RIPPLE CURRENT

| | | | | | | |
|---------------|--------------|------|-------|-------|------|--------|
| Frequency(Hz) | | 60Hz | 120Hz | 300Hz | 1KHz | 10KHz~ |
| Coefficient | <33µF | 0.20 | 0.42 | 0.52 | 0.70 | 0.90 |
| | 39~270µF | 0.26 | 0.50 | 0.55 | 0.73 | 0.92 |
| | 330~680µF | 0.28 | 0.55 | 0.60 | 0.77 | 0.94 |
| | 820~1800µF | 0.35 | 0.60 | 0.70 | 0.80 | 0.96 |
| | 2200~18000µF | 0.42 | 0.70 | 0.77 | 0.85 | 0.98 |

Please visit our website to get more update data, those data & specification are subject to change without notice.

Radial Aluminum Electrolytic Capacitor – JRG

DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT & IMPEDANCE

| ww | | 6.3 (OJ) | | 10 (1A) | | 16 (1C) | | 25 (1E) | |
|------|-----|---------------------------|--|---------------------------|--|---------------------------|--|---------------------------|--|
| | | Case Size ØDxL (mm) | Ripple Current (mA rms, 105°C 100KHz) | Case Size ØDxL (mm) | Ripple Current (mA rms, 105°C 100KHz) | Case Size ØDxL (mm) | Ripple Current (mA rms, 105°C 100KHz) | Case Size ØDxL (mm) | Ripple Current (mA rms, 105°C 100KHz) |
| 47 | 470 | | | | | | | 5x11 | 210 |
| 56 | 560 | | | | | 5x11 | 210 | | |
| 100 | 101 | | | 5x11 | 210 | | | 6.3x11.5 | 340 |
| 150 | 151 | 5x11 | 210 | | | 6.3x11.5 | 340 | | |
| 220 | 221 | | | 6.3x11.5 | 340 | 8x11.5 | 430 | 8x11.5 | 640 |
| 330 | 331 | 6.3x11.5 | 340 | | | 8x11.5 | 640 | 8x16 | 840 |
| 470 | 471 | | | 8x11.5 | 640 | 8x16 | 840 | 10x16 | 1210 |
| 680 | 681 | 8x11.5 | 640 | 8x16 | 840 | 10x16 | 1210 | 10x20 | 1400 |
| 820 | 821 | 10x12 | 865 | | | | | 10x25 | 1650 |
| 1000 | 102 | 8x16 | 840 | 10x16 | 1210 | 10x20 | 1400 | 13x20 | 1900 |
| 1200 | 122 | 10x16 | 1210 | 10x20 | 1400 | 10x20 | 1650 | 13x25 | 2210 |
| 1500 | 152 | 13x20 | 1400 | 13x20 | 1450 | 13x20 | 1900 | 13x25 | 2230 |
| 1800 | 182 | 13x20 | 1450 | | | | | | |
| 2200 | 222 | 13x20 | 1650 | 13x20 | 1900 | 13x25 | 2230 | 13x35 | 2880 |

| ww | | 35V (1V) | | 50V (1H) | | 63V | |
|------|-----|---------------------------|--|---------------------------|--|---------------------------|--|
| | | Case Size ØDxL (mm) | Ripple Current (mA rms, 105°C 100KHz) | Case Size ØDxL (mm) | Ripple Current (mA rms, 105°C 100KHz) | Case Size ØDxL (mm) | Ripple Current (mA rms, 105°C 100KHz) |
| 0.47 | R47 | | | 5x11 | 17 | | |
| 1 | O10 | | | 5x11 | 30 | | |
| 2.2 | 2R2 | | | 5x11 | 43 | | |
| 3.3 | 3R3 | | | 5x11 | 53 | | |
| 4.7 | 4R7 | | | 5x11 | 95 | | |
| 10 | 100 | | | 6.3x11.5 | 130 | | |
| 15 | 150 | | | | | 6.3x11.5 | 165 |
| 22 | 220 | | | 6.3x11.5 | 180 | | |
| 33 | 330 | 5x11 | 210 | | | 6.3x11.5 | 265 |
| 47 | 470 | 6.3x11.5 | 340 | 8x11.5 | 295 | | |
| 56 | 560 | 6.3x11.5 | 340 | | | 8x11.5 | 500 |
| 82 | 820 | | | | | 8x16 | 665 |
| 100 | 101 | | | 10x12 | 555 | | |
| 120 | 121 | | | 10x16 | 730 | 10x16 | 950 |
| 150 | 151 | 8x11.5 | 640 | 10x16 | 760 | | |
| 180 | 181 | | | 10x16 | 910 | 10x20 | 1150 |
| 220 | 221 | 10x12 | 865 | 10x20 | 1050 | 10x25 | 1350 |
| 330 | 331 | 10x16 | 1210 | 10x25 | 1440 | | |
| 470 | 471 | 10x20 | 1400 | 13x20 | 1660 | 16x25 | 2000 |
| 680 | 681 | 13x20 | 1900 | 13x30 | 2310 | 16x31 | 2600 |
| 820 | 821 | | | 13x35 | 2510 | 16x31 | 2850 |
| 1000 | 102 | 16x25 | 2230 | 13x40 | 2920 | 16x35 | 2900 |
| 1200 | 122 | 13x30 | 2650 | 16x31 | 3010 | 18x31 | 3300 |
| 1500 | 152 | 13x35 | 2880 | 16x35 | 3150 | 18x35 | 3400 |
| 2200 | 222 | 18x31 | 3140 | 18x35 | 3680 | | |

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