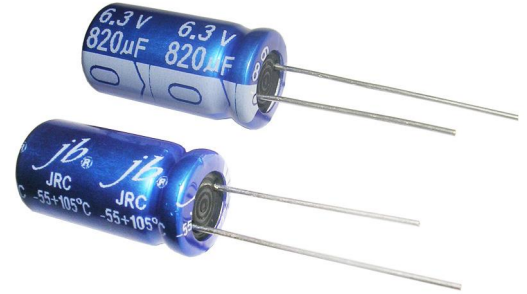


Radial Aluminum Electrolytic Capacitor – JRC

FEATURES

- Load life of 2000 hours at 105°C
- Switch power supply
- High Frequency
- Low Impedance

SPECIFICATIONS



| | |
|-------------------------------------|---|
| Operating Temperature Range (°C) | -55°C ~ +105°C |
| Rated Voltage Range (V) | 6.3 ~ 100 |
| Capacitance Range (µF) | 0.47 ~ 15000 |
| Capacitance Tolerance (25°C, 120Hz) | ±20% |
| Leakage Current (µA) | 1=0.02CV or 3 whichever is greater (at 25°C, after 2 minutes), C: Nominal Capacitance (µF) V: Rated Voltage (V) |

| | | | | | | | | | |
|----------------------------------|---------------|------|------|------|------|------|------|------|------|
| Dissipation Factor (25°C, 120Hz) | Rated Voltage | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 |
| | Tan δ | 0.22 | 0.19 | 0.16 | 0.14 | 0.12 | 0.10 | 0.09 | 0.08 |

Add 0.02 per 1000µF or more.

Characteristics of Low Temperature Impedance at -10°C, 100KHz<200% of initial specified value at +20°C, 100KHz (Impedance ratio at 100KHz)
 Load Life (+105°C) After life test at condition stated in the table below, the capacitors shall meet the following requirement.

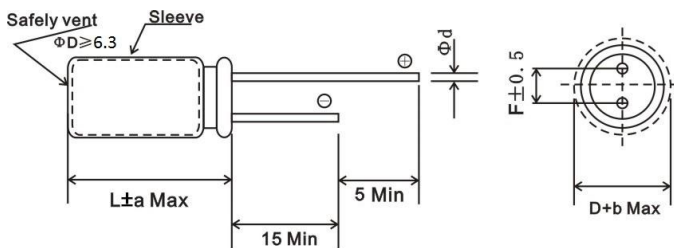
| | |
|----------|-----------------|
| Case Dia | Test time (hrs) |
| ΦD≤8 | 1000 |
| ΦD>8 | 2000 |

Ripple current applied

| | |
|--------------------|--|
| Leakage Current | Not more than the specified value. |
| Capacitance Change | Within±20% of the initial value |
| Dissipation Factor | Not more than 200% of the specified value. |

Shelf Life (+105°C) 1000 hours. No voltage applied. After test: U_R to be applied for 30 minutes, 24 to 48 hours before measurement

DIMENSIONS (mm)



| | | | | | | | |
|---------|-----|-----|-----|-----|-----|-----|----|
| ∅D | 5 | 6.3 | 8 | 10 | 13 | 16 | 18 |
| F | 2.0 | 2.5 | 3.5 | 5.0 | | 7.5 | |
| ∅d±0.05 | 0.5 | 0.6 | | | 0.8 | | |

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

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

MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

| | | | | |
|---------------------|------|------|------|------|
| Freq(Hz) Cap(µF) | 120 | 1K | 10K | 100K |
| 0.47~4.7 | 0.40 | 0.68 | 0.78 | 1.0 |
| 5.6~47 | 0.50 | 0.76 | 0.87 | 1.0 |
| 56~270 | 0.70 | 0.85 | 0.90 | 1.0 |
| 330~1000 | 0.80 | 0.93 | 0.98 | 1.0 |
| 1200~15000 | 0.90 | 0.95 | 1.0 | 1.0 |

Temperature coefficient

| | | | |
|-----------------|------|------|------|
| Temperature(°C) | +70 | +85 | +105 |
| Factor | 1.96 | 1.68 | 1.0 |

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Radial Aluminum Electrolytic Capacitor – JRC

STANDARD RATINGS

| V μF | 6.3V | | | 10V | | | 16V | | |
|---------|-------|------------------------------|--|--------|------------------------------|--|-------|------------------------------|--|
| | DxL | Impedance (Ωmax) 20°C 100KHz | Rated Ripple Current (mA.m.s./ 105°C 100KHZ) | DxL | Impedance (Ωmax) 20°C 100KHz | Rated Ripple Current (mA.m.s./ 105°C 100KHZ) | DxL | Impedance (Ωmax) 20°C 100KHz | Rated Ripple Current (mA.m.s./ 105°C 100KHZ) |
| 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 2.2 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 3.3 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 4.7 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 6.8 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 10 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 18 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 22 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 27 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 33 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 39 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 47 | -- | -- | -- | -- | -- | -- | 5x11 | 1.4 | 194 |
| 56 | -- | -- | -- | -- | -- | -- | 5x11 | 1.4 | 194 |
| 68 | -- | -- | -- | -- | -- | -- | 5x12 | 0.93 | 201 |
| 82 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 100 | -- | -- | -- | 5x11 | 1.3 | 221 | 6x11 | 0.85 | 300 |
| 120 | -- | -- | -- | 5x11 | 1.3 | 221 | 6x11 | 0.5 | 300 |
| 150 | 5x11 | 0.25 | 340 | 5x11 | 0.8 | 340 | 6x11 | 0.41 | 300 |
| 180 | 5x11 | 0.25 | 340 | 6.3x11 | 0.8 | 340 | 6x11 | 0.38 | 300 |
| 220 | 6x11 | 0.25 | 340 | 6x11 | 0.5 | 340 | 6x11 | 0.33 | 300 |
| 270 | 6x11 | 0.25 | 340 | 6.3x11 | 0.5 | 300 | 8x12 | 0.33 | 580 |
| 330 | 6x11 | 0.2 | 500 | 8x12 | 0.33 | 300 | 8x12 | 0.3 | 580 |
| 390 | 6x12 | 0.2 | 500 | 8x12 | 0.33 | 300 | -- | -- | -- |
| 470 | 6x12 | 0.2 | 650 | 8x12 | 0.29 | 580 | 8x12 | 0.28 | 870 |
| 560 | 8x12 | 0.2 | 650 | 8x12 | 0.25 | 580 | 8x16 | 0.28 | 870 |
| 680 | 8x12 | 0.22 | 650 | 8x12 | 0.13 | 580 | 8x16 | 0.26 | 850 |
| 820 | 8x14 | 0.15 | 870 | 8x16 | 0.1 | 870 | 8x19 | 0.18 | 1210 |
| 1000 | 8x16 | 0.15 | 870 | 8x16 | 0.1 | 850 | 10x17 | 0.12 | 1210 |
| 1200 | 8x16 | 0.15 | 870 | 10x17 | 0.095 | 1400 | 10x21 | 0.15 | 1400 |
| 1500 | 8x16 | 0.1 | 1150 | 10x21 | 0.092 | 1400 | 13x20 | 0.096 | 1400 |
| 1800 | 10x17 | 0.1 | 1300 | 10x25 | 0.08 | 1400 | 13x20 | 0.096 | 1900 |
| 2200 | 10x17 | 0.1 | 1300 | 13x20 | 0.065 | 1400 | 13x20 | 0.063 | 1900 |
| 2700 | 10x21 | 0.1 | 1550 | 13x21 | 0.065 | 1900 | 16x26 | 0.063 | 2130 |
| 3300 | 13x20 | 0.087 | 1900 | 13x20 | 0.065 | 1900 | 13x30 | 0.056 | 2550 |
| 3900 | 13x25 | 0.068 | 2060 | -- | -- | -- | 16x26 | 0.04 | 2850 |
| 4700 | 13x25 | 0.068 | 2130 | 13x26 | 0.06 | 2262 | 16x26 | 0.035 | 3200 |
| 5600 | 16x26 | 0.065 | 2350 | 16x30 | 0.06 | 2543 | 16x35 | 0.03 | 3300 |
| 6800 | 16x26 | 0.06 | 2560 | 16x30 | 0.048 | 2650 | 18x25 | 0.04 | 2820 |
| 8200 | 16x32 | 0.05 | 2950 | 16x35 | 0.048 | 2850 | -- | -- | -- |
| 10000 | 16x35 | 0.05 | 3050 | 16x40 | 0.035 | 3105 | -- | -- | -- |

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Radial Aluminum Electrolytic Capacitor – JRC

STANDARD RATINGS

| V μF | 25V | | | 35V | | | 50V | | |
|---------|--------|------------------------------|--|--------|------------------------------|--|----------------|------------------------------|--|
| | DxL | Impedance (Ωmax) 20°C 100KHz | Rated Ripple Current (mA.m.s./ 105°C 100KHZ) | DxL | Impedance (Ωmax) 20°C 100KHz | Rated Ripple Current (mA.m.s./ 105°C 100KHZ) | DxL | Impedance (Ωmax) 20°C 100KHz | Rated Ripple Current (mA.m.s./ 105°C 100KHZ) |
| 1 | -- | -- | -- | -- | -- | -- | 5x11 | 3 | 45 |
| 2.2 | -- | -- | -- | -- | -- | -- | 5x11 | 3 | 56 |
| 3.3 | -- | -- | -- | -- | -- | -- | 5x11 | 2.8 | 75 |
| 4.7 | -- | -- | -- | 5x11 | 3 | 45 | 5x11 | 2 | 95 |
| 6.8 | -- | -- | -- | 5x11 | 3 | 55 | 5x11 | 1.8 | 104 |
| 10 | -- | -- | -- | 5x11 | 2 | 108 | 5x12 | 1.5 | 118 |
| 15 | -- | -- | -- | 5x11 | 2 | 108 | 5x12 | 1.5 | 118 |
| 18 | -- | -- | -- | 5x11 | 2 | 108 | 5x12 | 1.5 | 118 |
| 22 | 5x11 | 1.9 | 130 | 5x11 | 1 | 155 | 6x11 | 0.8 | 175 |
| 27 | -- | -- | -- | 5x11 | 1 | 155 | 6x11 | 0.8 | 175 |
| 33 | -- | -- | -- | 6x11 | 1.2 | 163 | 6x11 | 0.6 | 295 |
| 39 | -- | -- | -- | 6x11 | 1 | 205 | 6x11 | 0.6 | 295 |
| 47 | 5x11 | 1.3 | 198 | 6x11 | 0.5 | 340 | 6x12 | 0.4 | 295 |
| 56 | 5x11 | 1.3 | 198 | 6x11 | 0.5 | 340 | 6x12 | 0.4 | 560 |
| 68 | 5x12 | 0.82 | 228 | 6x11 | 0.5 | 340 | 8x12 | 0.4 | 560 |
| 82 | 6.3x11 | 0.55 | 340 | 6.3x11 | 0.3 | 650 | 8x12 | 0.3 | 560 |
| 100 | 6x11 | 0.55 | 300 | 8x12 | 0.3 | 650 | 8x12 | 0.3 | 760 |
| 120 | 6.3x11 | 0.42 | 650 | 8x12 | 0.3 | 650 | 8x16 | 0.25 | 730 |
| 150 | 8x12 | 0.42 | 650 | 8x12 | 0.3 | 650 | 8x19 | 0.2 | 1050 |
| 180 | 8x12 | 0.42 | 650 | 8x14 | 0.18 | 870 | 8x19 | 0.2 | 1050 |
| 220 | 8x12 | 0.42 | 650 | 10x17 | 0.18 | 870 | 10x17 | 0.2 | 1050 |
| 270 | 8x14 | 0.38 | 870 | 10x17 | 0.15 | 1210 | 10x21 | 0.15 | 1440 |
| 330 | 10x12 | 0.32 | 870 | 10x17 | 0.15 | 1210 | 10x21 | 0.13 | 1660 |
| 390 | 8x19 | 0.34 | 1020 | 10x17 | 0.13 | 1280 | 13x20 | 0.13 | 1720 |
| 470 | 10x17 | 0.25 | 870 | 10x17 | 0.1 | 1210 | 13x20 13x21 | 0.12 | 1950 |
| 560 | 8x19 | 0.22 | 1210 | 10x25 | 0.09 | 1400 | 13x21 | 0.12 | 1950 |
| 680 | 10x17 | 0.22 | 1210 | 13x20 | 0.09 | 1400 | 13x26 | 0.1 | 1950 |
| 820 | 10x25 | 0.18 | 1400 | 13x20 | 0.06 | 1900 | 13x25 | 0.08 | 2130 |
| 1000 | 10x21 | 0.2 | 1400 | 13x25 | 0.05 | 2130 | 13x25 | 0.08 | 2230 |
| 1200 | 13x20 | 0.18 | 1400 | 16x20 | 0.04 | 2310 | 13x30 | 0.05 | 2430 |
| 1500 | 13x20 | 0.16 | 1900 | 16x20 | 0.032 | 2485 | 16x26 | 0.03 | 2520 |
| 1800 | 13x26 | 0.12 | 2130 | 16x26 | 0.018 | 2750 | 16x32 | 0.02 | 2850 |
| 2200 | 13x26 | 0.12 | 2130 | 16x26 | 0.018 | 2820 | 16x35 | 0.015 | 2980 |
| 2700 | 13x26 | 0.1 | 2280 | 16x35 | 0.01 | 3150 | 18x40 | 0.01 | 3350 |
| 3300 | 16x26 | 0.08 | 2680 | 16x35 | 0.01 | 3310 | 18x40 | 0.01 | 3580 |
| 3900 | 16x26 | 0.08 | 2350 | 18x40 | 0.01 | 4013 | -- | -- | -- |
| 4700 | 16x26 | 0.08 | 2550 | -- | -- | -- | -- | -- | -- |
| 5600 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 6800 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8200 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 10000 | -- | -- | -- | -- | -- | -- | -- | -- | -- |

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Radial Aluminum Electrolytic Capacitor – JRC

STANDARD RATINGS

| V μF | 63V | | | 100V | | |
|---------|-------|------------------------------------|--|-------|------------------------------------|--|
| | DxL | Impedance (Ωmax) 20°C 100KHz | Rated Ripple Current (mA.m.s./ 105°C 100KHZ) | DxL | Impedance (Ωmax) 20°C 100KHz | Rated Ripple Current (mA.m.s./ 105°C 100KHZ) |
| 1 | -- | -- | -- | -- | -- | -- |
| 2.2 | -- | -- | -- | -- | -- | -- |
| 3.3 | -- | -- | -- | -- | -- | -- |
| 4.7 | -- | -- | -- | -- | -- | -- |
| 6.8 | -- | -- | -- | -- | -- | -- |
| 10 | 5x12 | 1.5 | 81 | 6x11 | 1.2 | 175 |
| 15 | -- | -- | -- | -- | -- | -- |
| 18 | -- | -- | -- | -- | -- | -- |
| 22 | 6x11 | 1.5 | 120 | 8x12 | 0.3 | 185 |
| 27 | -- | -- | -- | -- | -- | -- |
| 33 | 6x11 | 1.5 | 120 | 10x13 | 0.32 | 255 |
| 39 | -- | -- | -- | -- | -- | -- |
| 47 | 8x12 | 1 | 235 | 10x17 | 0.34 | 315 |
| 56 | -- | -- | -- | -- | -- | -- |
| 68 | 10x13 | 1 | 235 | 10x21 | 0.245 | 360 |
| 82 | -- | -- | -- | -- | -- | -- |
| 100 | 10x17 | 0.8 | 315 | 13x20 | 0.165 | 470 |
| 120 | -- | -- | -- | -- | -- | -- |
| 150 | -- | -- | -- | -- | -- | -- |
| 180 | -- | -- | -- | -- | -- | -- |
| 220 | 10x21 | 0.3 | 470 | 16x26 | 0.095 | 930 |
| 270 | -- | -- | -- | -- | -- | -- |
| 330 | 13x20 | 0.25 | 700 | 16x26 | 0.08 | 1620 |
| 390 | -- | -- | -- | -- | -- | -- |
| 470 | 13x20 | 0.13 | 1820 | 16x31 | 0.05 | 1850 |
| 560 | -- | -- | -- | -- | -- | -- |
| 680 | 16x26 | 0.1 | 2030 | | | |
| 820 | -- | -- | -- | -- | -- | -- |
| 1000 | 16x26 | 0.08 | 2230 | -- | -- | -- |
| 1200 | 16x30 | 0.06 | 2520 | -- | -- | -- |
| 1500 | -- | -- | -- | -- | -- | -- |
| 1800 | -- | -- | -- | -- | -- | -- |
| 2200 | 18x40 | 0.04 | 2810 | | | |
| 2700 | -- | -- | -- | -- | -- | -- |
| 3300 | -- | -- | -- | -- | -- | -- |
| 3900 | -- | -- | -- | -- | -- | -- |
| 4700 | -- | -- | -- | -- | -- | -- |
| 5600 | -- | -- | -- | -- | -- | -- |
| 6800 | -- | -- | -- | -- | -- | -- |
| 8200 | -- | -- | -- | -- | -- | -- |
| 10000 | -- | -- | -- | -- | -- | -- |

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