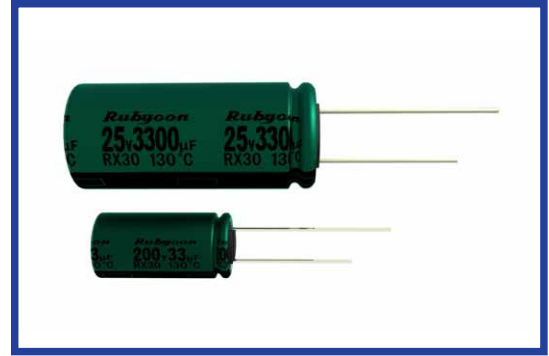


RX30 SERIES

Load Life : 130°C 1000~4000 hours

- For Automotive and LED Lighting applications.
- AEC-Q200.



◆SPECIFICATIONS

| Items | Characteristics | |
|---|---|--|
| Category Temperature Range | -40~+130°C | -25~+130°C |
| Rated Voltage Range | 10~100Vdc | 200, 400Vdc |
| Capacitance Tolerance | ±20% (20°C, 120Hz) | |
| Leakage Current(MAX) | I=0.01CV or 3μA whichever is greater. (After 2 minutes application of rated voltage) | CV≤1000 |
| | | CV>1000 |
| | | I=0.1CV+40μA (1 minute) I=0.03CV+15μA (5 minutes) |
| | | I=0.04CV+100μA (1 minute) I=0.02CV+25μA (5 minutes) |
| | I=Leakage Current(μA) | C=Capacitance(μF) V=Rated Voltage(Vdc) |
| Dissipation Factor(MAX) (tanδ) | Rated Voltage (Vdc) | |
| | tanδ | |
| | 10 16 25 35 50 63 100 200 400 | (20°C, 120Hz) |
| | 0.20 0.16 0.14 0.12 0.10 0.09 0.08 0.15 0.20 | |
| | When capacitance is over 1000μF, tanδ shall be added 0.02 to the listed value with increase of every 1000μF. | |
| Endurance | After applying rated voltage with rated ripple current for specified time at 130°C, the capacitors shall meet the following requirements. | |
| | | 10~100Vdc 200, 400Vdc |
| | Capacitance Change | Within ±30% of the initial value. Within ±20% of the initial value. |
| | Dissipation Factor | Not more than 300% of the specified value. Not more than 200% of the specified value. |
| | Leakage Current | Not more than the specified value. |
| | | Case Size Life Time (hrs) |
| | | 10~100Vdc 200, 400Vdc |
| | | φD=6.3 - 1000 |
| | | φD=8, 10 2000 2000 |
| | | φD≥12.5 4000 - |
| Low Temperature Stability Impedance Ratio(MAX) | Rated Voltage (Vdc) | |
| | Z(-25°C)/Z(20°C) | |
| | Z(-40°C)/Z(20°C) | |
| | 10 16 25 35 50 63 100 200 400 | (120Hz) |
| | 3 2 2 2 2 2 2 3 6 | |
| | 6 4 3 3 3 3 3 - - | |

◆MULTIPLIER FOR RIPPLE CURRENT

10~100Vdc

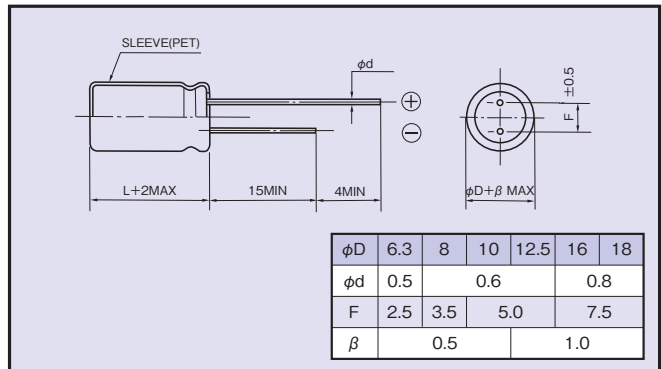
| Frequency (Hz) | 60(50) | 120 | 1k | 10k | 100k≤ | |
|----------------|-------------|------|------|------|-------|------|
| Coefficient | 4.7μF | 0.35 | 0.42 | 0.60 | 0.80 | 1.00 |
| | 10~33μF | 0.45 | 0.55 | 0.75 | 0.90 | 1.00 |
| | 47~330μF | 0.60 | 0.70 | 0.85 | 0.95 | 1.00 |
| | 470~1500μF | 0.65 | 0.75 | 0.90 | 0.98 | 1.00 |
| | 2200~4700μF | 0.75 | 0.80 | 0.95 | 1.00 | 1.00 |

200, 400Vdc

| Frequency (Hz) | 120 | 1k | 10k | 100k≤ | |
|----------------|----------|------|------|-------|------|
| Coefficient | 1~5.6μF | 0.20 | 0.40 | 0.80 | 1.00 |
| | 6.8~15μF | 0.30 | 0.60 | 0.90 | 1.00 |
| | 22~33μF | 0.50 | 0.80 | 0.90 | 1.00 |

◆DIMENSIONS

(mm)



◆PART NUMBER

□□□ RX30 □□□□□ M □□□ □□ D×L
 Rated Voltage Series Capacitance Capacitance Tolerance Option Lead Forming Case Size

◆OPTION

| | Code |
|------------|-------|
| PET Sleeve | Blank |

◆STANDARD SIZE

| Rated Voltage (Vdc) | Capacitance (μF) | Size φD×L(mm) | Rated ripple current (mA r.m.s./130°C, 100kHz) | Impedance (Ω MAX) |
|---------------------|------------------|---------------|--|-------------------|
| | | | | 20°C, 100kHz |
| 10 | 330 | 8×11.5 | 360 | 0.22 |
| | 470 | 10×12.5 | 620 | 0.15 |
| | 1000 | 10×20 | 960 | 0.073 |
| | 2200 | 12.5×25 | 1430 | 0.040 |
| | 3300 | 16×25 | 1900 | 0.038 |
| | 4700 | 16×31.5 | 2300 | 0.034 |
| 16 | 330 | 8×11.5 | 360 | 0.22 |
| | 470 | 10×12.5 | 620 | 0.15 |
| | 1000 | 10×20 | 960 | 0.073 |
| | 2200 | 12.5×25 | 1430 | 0.040 |
| | 3300 | 16×31.5 | 2300 | 0.034 |
| | 4700 | 16×35.5 | 2550 | 0.031 |
| 25 | 220 | 8×11.5 | 360 | 0.22 |
| | 330 | 10×12.5 | 620 | 0.15 |
| | 470 | 10×16 | 800 | 0.10 |
| | 1000 | 12.5×20 | 1100 | 0.055 |
| | 2200 | 16×31.5 | 2300 | 0.034 |
| | 3300 | 16×35.5 | 2550 | 0.031 |
| 35 | 100 | 8×11.5 | 360 | 0.22 |
| | 220 | 10×12.5 | 620 | 0.15 |
| | 330 | 10×16 | 800 | 0.10 |
| | 470 | 10×20 | 960 | 0.073 |
| | 1000 | 12.5×25 | 1430 | 0.040 |
| | 2200 | 16×35.5 | 2550 | 0.031 |
| | 3300 | 18×35.5 | 2800 | 0.028 |
| 50 | 4.7 | 8×11.5 | 100 | 0.85 |
| | 10 | 8×11.5 | 200 | 0.60 |
| | 22 | 8×11.5 | 260 | 0.35 |
| | 33 | 8×11.5 | 300 | 0.28 |
| | 47 | 8×11.5 | 300 | 0.28 |
| | 100 | 10×12.5 | 520 | 0.18 |
| | 220 | 10×20 | 890 | 0.082 |
| | 330 | 12.5×20 | 1000 | 0.065 |
| | 470 | 12.5×25 | 1200 | 0.051 |
| | 1000 | 16×31.5 | 2180 | 0.037 |
| | 2200 | 18×40 | 2800 | 0.029 |
| 63 | 33 | 8×11.5 | 250 | 0.40 |
| | 47 | 10×12.5 | 400 | 0.27 |
| | 100 | 10×16 | 450 | 0.20 |
| | 220 | 12.5×20 | 820 | 0.10 |
| | 330 | 12.5×25 | 1000 | 0.072 |
| | 470 | 16×25 | 1500 | 0.069 |
| | 1000 | 16×31.5 | 1850 | 0.056 |
| | 1500 | 18×40 | 2350 | 0.043 |
| 100 | 4.7 | 8×11.5 | 100 | 1.3 |
| | 10 | 8×11.5 | 200 | 1.0 |
| | 22 | 8×11.5 | 220 | 0.67 |
| | 33 | 10×12.5 | 260 | 0.45 |
| | 47 | 10×16 | 330 | 0.33 |
| | 100 | 12.5×20 | 670 | 0.17 |
| | 220 | 16×25 | 1100 | 0.13 |
| | 330 | 16×31.5 | 1300 | 0.10 |
| 470 | 18×31.5 | 1600 | 0.092 | |

| Rated Voltage (Vdc) | Capacitance (μF) | Size φD×L(mm) | Rated ripple current (mA r.m.s./130°C, 100kHz) |
|---------------------|------------------|---------------|--|
| | | | |
| 8×11.5 | 120 | | |
| 5.6 | 8×11.5 | 130 | |
| | 8×16 | 180 | |
| 6.8 | 8×11.5 | 130 | |
| | 8×16 | 180 | |
| 10 | 8×16 | 200 | |
| | 8×20 | 240 | |
| 15 | 8×16 | 200 | |
| | 8×20 | 240 | |
| 22 | 8×20 | 300 | |
| | 10×16 | 240 | |
| 33 | 10×20 | 320 | |
| 400 | 1 | 6.3×11 | 60 |
| | | 8×11.5 | 65 |
| | 1.5 | 8×11.5 | 75 |
| | | 8×16 | 80 |
| | 1.8 | 8×11.5 | 75 |
| | | 8×16 | 85 |
| | 2.2 | 8×11.5 | 75 |
| | | 8×16 | 90 |
| | 2.2 | 8×20 | 110 |
| | | 2.7 | 8×16 |
| | 8×20 | | 115 |
| | 3.3 | 8×16 | 100 |
| | | 8×20 | 120 |
| | 4.7 | 8×20 | 120 |
| | | 10×16 | 125 |
| 5.6 | 10×16 | 130 | |
| | 10×20 | 145 | |
| 6.8 | 10×20 | 150 | |