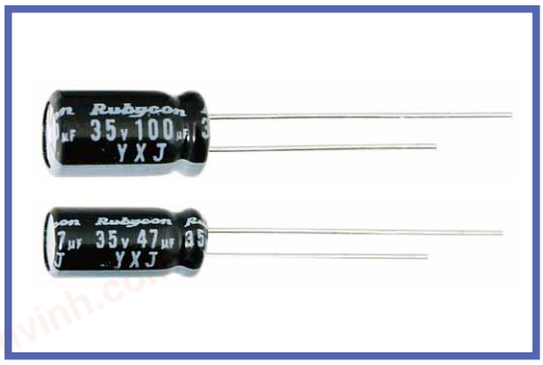
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Rubycon **MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS** **YXJ**

# YXJ SERIES

**105℃ Miniaturized.Long Life,Low impedance.**




## ◆FEATURES

- Load Life : 105℃ 4000～10000 hours.
- RoHS compliance.

## ◆SPECIFICATIONS

| Items | Characteristics |
|---|---|
| Category Temperature Range | −40～+105℃ |
| Rated Voltage Range | 6.3～100V.DC |
| Capacitance Tolerance | ±20%(20℃,120Hz) |
| Leakage Current(MAX) | I=0.01CV or 3μA whichever is greater. (After 2 minutes)<br>I=(μA) Leakage Current C=(μF) Rated Capacitance V=(V) Rated Voltage |
| (tanδ) Dissipation Factor(MAX) | (20℃,120Hz)<br>When rated capacitance is over 1000μF, tanδ shall be added 0.02 to the listed value with increase of every 1000μF. |
| Endurance | After life test with rated ripple current at conditions stated in the table below, the capacitors shall meet the following requirements. |
| Low Temperature Stability Impedance Ratio(MAX) | (120Hz) |

| Rated Voltage | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 |
|---|---|---|---|---|---|---|---|---|
| tanδ | 0.22 | 0.19 | 0.16 | 0.14 | 0.12 | 0.10 | 0.09 | 0.08 |

| Capacitance Change | Within ±25% of the initial value.(6.3V:±30%) |
|---|---|
| Dissipation Factor | Not more than 200% of the specified value. |
| Leakage Current | Not more than the specified value. |

| Case Size | (hrs) Life Time | |
|---|---|---|
| | 6.3～10WV | 16～100WV |
| φD=5 | 4000 | 5000 |
| φD=6.3,8 | 6000 | 7000 |
| φD≧10 | 8000 | 10000 |

| Rated Voltage | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 |
|---|---|---|---|---|---|---|---|---|
| Z(−25℃)/Z(20℃) | 4 | 3 | 2 | 2 | 2 | 2 | 2 | 2 |
| Z(−40℃)/Z(20℃) | 8 | 6 | 4 | 3 | 3 | 3 | 3 | 3 |

## ◆MULTIPLIER FOR RIPPLE CURRENT

Frequency Coefficient

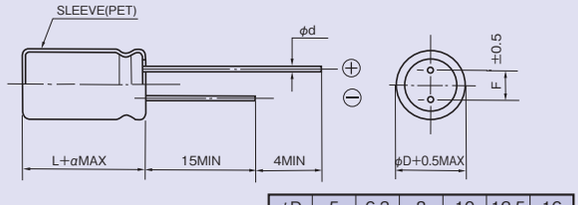
(6.3WV～50WV)

| (Hz) Frequency | | 120 | 1k | 10k | 100k≦ |
|---|---|---|---|---|---|
| Coefficient | 0.47～10μF | 0.42 | 0.60 | 0.80 | 1.00 |
| | 22～33μF | 0.55 | 0.75 | 0.90 | 1.00 |
| | 47～330μF | 0.70 | 0.85 | 0.95 | 1.00 |
| | 470～1000μF | 0.75 | 0.90 | 0.98 | 1.00 |
| | 2200～15000μF | 0.80 | 0.95 | 1.00 | 1.00 |

(63WV～100WV)

| (Hz) Frequency | 120 | 1k | 10k | 100k≦ |
|---|---|---|---|---|
| Coefficient | 0.42 | 0.60 | 0.80 | 1.00 |

## ◆DIMENSIONS (mm)




| φD | 5 | 6.3 | 8 | 10 | 12.5 | 16 |
|---|---|---|---|---|---|---|
| φd | 0.5 | | 0.6 | | | 0.8 |
| F | 2.0 | 2.5 | 3.5 | 5.0 | | 7.5 |
| α | L≦16 : α=1.5 L≧20 : α=2.0 | | | | | |

## ◆OPTION

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

## ◆PART NUMBER

| □□□ | YXJ | □□□□□ | M | □□□ | □□ | D×L |
|---|---|---|---|---|---|---|
| Rated Voltage | Series | Rated Capacitance | Capacitance Tolerance | Option | Lead Forming | Case Size |

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Rubycon **MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS** **YXJ**

## ◆STANDARD SIZE

| Rated Voltage (V·DC) | Rated capacitance (μF) | Size φD×L(mm) | Rated ripple current (mA r.m.s./105℃, 100kHz) | (Ω MAX) Impedance | |
|---|---|---|---|---|---|
| | | | | 20℃, 100kHz | −10℃, 100kHz |
| 6.3 (0J) | 100 | 5×11 | 150 | 0.90 | 3.6 |
| | 220 | 5×11 | 250 | 0.40 | 1.2 |
| | 330 | 6.3×11 | 340 | 0.22 | 0.87 |
| | 470 | 6.3×11 | 400 | 0.22 | 0.87 |
| | 1000 | 8×11.5 | 640 | 0.13 | 0.52 |
| | 2200 | 10×16 | 1300 | 0.062 | 0.25 |
| | 3300 | 10×20 | 1400 | 0.046 | 0.18 |
| | 4700 | 12.5×25 | 2230 | 0.032 | 0.11 |
| | 6800 | 12.5×25 | 2230 | 0.032 | 0.11 |
| | 10000 | 16×25 | 2930 | 0.021 | 0.060 |
| | 15000 | 16×35.5 | 3610 | 0.015 | 0.044 |
| 10 (1A) | 100 | 5×11 | 150 | 0.90 | 3.6 |
| | 220 | 5×11 | 250 | 0.40 | 1.2 |
| | 330 | 6.3×11 | 400 | 0.22 | 0.87 |
| | 470 | 6.3×11 | 400 | 0.22 | 0.87 |
| | 1000 | 10×12.5 | 865 | 0.080 | 0.32 |
| | 2200 | 10×20 | 1400 | 0.046 | 0.18 |
| | 3300 | 12.5×20 | 1900 | 0.041 | 0.14 |
| | 4700 | 12.5×25 | 2230 | 0.032 | 0.11 |
| | 6800 | 16×25 | 2930 | 0.021 | 0.060 |
| | 10000 | 16×31.5 | 3450 | 0.019 | 0.056 |
| 16 (1C) | 47 | 5×11 | 250 | 0.40 | 1.2 |
| | 100 | 5×11 | 250 | 0.40 | 1.2 |
| | 220 | 6.3×11 | 400 | 0.22 | 0.87 |
| | 330 | 6.3×11 | 400 | 0.22 | 0.87 |
| | 470 | 8×11.5 | 640 | 0.13 | 0.52 |
| | 1000 | 10×16 | 1210 | 0.062 | 0.25 |
| | 2200 | 12.5×20 | 1900 | 0.041 | 0.14 |
| | 3300 | 12.5×25 | 2230 | 0.032 | 0.11 |
| | 4700 | 16×25 | 2930 | 0.021 | 0.060 |
| | 6800 | 16×31.5 | 3450 | 0.019 | 0.056 |
| 25 (1E) | 33 | 5×11 | 250 | 0.40 | 1.2 |
| | 47 | 5×11 | 250 | 0.40 | 1.2 |
| | 100 | 5×11 | 250 | 0.40 | 1.2 |
| | 220 | 6.3×11 | 400 | 0.22 | 0.87 |
| | 330 | 8×11.5 | 640 | 0.13 | 0.52 |
| | 470 | 10×12.5 | 865 | 0.080 | 0.32 |
| | 1000 | 10×20 | 1400 | 0.046 | 0.18 |
| | 2200 | 12.5×25 | 2230 | 0.032 | 0.11 |
| | 3300 | 16×25 | 2930 | 0.021 | 0.060 |
| | 4700 | 16×31.5 | 3450 | 0.019 | 0.056 |
| 35 (1V) | 33 | 5×11 | 250 | 0.40 | 1.2 |
| | 47 | 5×11 | 250 | 0.40 | 1.2 |
| | 100 | 6.3×11 | 400 | 0.22 | 0.87 |
| | 220 | 8×11.5 | 640 | 0.13 | 0.52 |
| | 330 | 10×12.5 | 865 | 0.080 | 0.32 |
| | 470 | 10×16 | 1210 | 0.062 | 0.25 |
| | 1000 | 12.5×20 | 1900 | 0.041 | 0.14 |
| | 2200 | 16×25 | 2930 | 0.021 | 0.060 |
| | 3300 | 16×31.5 | 3450 | 0.019 | 0.056 |

| Rated Voltage (V·DC) | Rated capacitance (μF) | Size φD×L(mm) | Rated ripple current (mA r.m.s./105℃, 100kHz) | (Ω MAX) Impedance | |
|---|---|---|---|---|---|
| | | | | 20℃, 100kHz | −10℃, 100kHz |
| 50 (1H) | 0.47 | 5×11 | 17 | 5.5 | 12.0 |
| | 1 | 5×11 | 30 | 4.0 | 8.0 |
| | 2.2 | 5×11 | 43 | 2.5 | 6.0 |
| | 3.3 | 5×11 | 53 | 2.2 | 5.6 |
| | 4.7 | 5×11 | 88 | 1.9 | 5.0 |
| | 10 | 5×11 | 100 | 1.5 | 4.0 |
| | 22 | 5×11 | 180 | 0.70 | 2.8 |
| | 33 | 5×11 | 250 | 0.70 | 2.8 |
| | 47 | 6.3×11 | 295 | 0.30 | 1.2 |
| | 100 | 8×11.5 | 555 | 0.17 | 0.68 |
| | 220 | 10×16 | 1050 | 0.084 | 0.34 |
| | 330 | 10×20 | 1220 | 0.060 | 0.24 |
| | 470 | 12.5×20 | 1660 | 0.045 | 0.15 |
| | 1000 | 16×25 | 2730 | 0.032 | 0.096 |
| | 2200 | 16×35.5 | 3150 | 0.019 | 0.057 |
| 63 (1J) | 10 | 5×11 | 173 | 0.88 | 3.5 |
| | 22 | 5×11 | 173 | 0.88 | 3.5 |
| | 33 | 6.3×11 | 278 | 0.35 | 1.4 |
| | 47 | 6.3×11 | 278 | 0.35 | 1.4 |
| | 100 | 10×12.5 | 725 | 0.15 | 0.60 |
| | 220 | 10×20 | 1200 | 0.078 | 0.31 |
| | 330 | 12.5×20 | 1570 | 0.060 | 0.19 |
| | 470 | 12.5×25 | 1990 | 0.043 | 0.14 |
| | 1000 | 16×25 | 2730 | 0.032 | 0.096 |
| 100 (2A) | 0.47 | 5×11 | 15 | 6.0 | 17.0 |
| | 1 | 5×11 | 20 | 4.5 | 15.0 |
| | 2.2 | 5×11 | 30 | 3.0 | 13.0 |
| | 3.3 | 5×11 | 40 | 2.7 | 11.0 |
| | 4.7 | 5×11 | 65 | 2.5 | 10.0 |
| | 10 | 6.3×11 | 267 | 0.57 | 2.3 |
| | 22 | 6.3×11 | 267 | 0.57 | 2.3 |
| | 33 | 8×11.5 | 462 | 0.36 | 1.4 |
| | 47 | 8×16 | 585 | 0.25 | 1.0 |
| | 100 | 10×20 | 1040 | 0.12 | 0.52 |
| | 220 | 12.5×25 | 1620 | 0.060 | 0.23 |
| | 330 | 16×25 | 2210 | 0.044 | 0.16 |

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