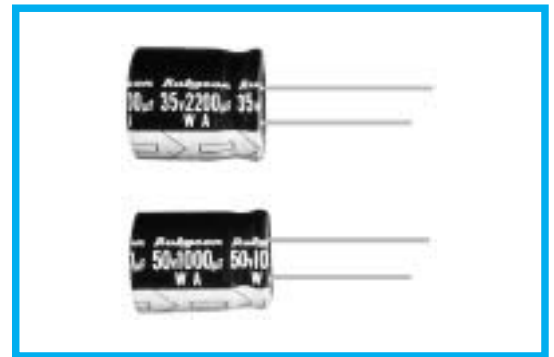


WA SERIES
85°C Miniaturized low profile.
◆FEATURES

- 9~25mm height.
- RoHS compliance.


◆SPECIFICATIONS

| Items | Characteristics | |
|--|---|---|
| Category Temperature Range | -40~+85°C | -25~+85°C |
| Rated Voltage Range | 6.3~250V.DC | 350~450V.DC |
| Capacitance Tolerance | ±20%(20°C, 120Hz) | |
| Leakage Current(MAX) | 6.3~50V.DC | 160~450V.DC |
| | I=0.01CV or 3 μA whichever is greater. (After 2 minutes application of rated voltage) | CV ≤ 1000 |
| | | CV > 1000 |
| | I=0.1CV+40 μA (1minute) I=0.03CV+15 μA (5minutes) | I=0.04CV+100 μA (1minute) I=0.02CV+25 μA (5minutes) |
| | I=Leakage Current(μA) | C=Rated Capacitance(μF) V=Rated Voltage(V) |
| Dissipation Factor(MAX) (tan δ) | Rated Voltage (V) | 6.3 10 16 25 35 50 160 200 250 350 400 450 (20°C, 120Hz) |
| | tan δ | 0.26 0.22 0.18 0.16 0.14 0.12 0.20 0.20 0.20 0.20 0.20 0.20 |
| | When rated capacitance is over 1000 μF, tan δ shall be added 0.02 to the listed value with increase of every 1000 μF. | |
| Endurance | After applying rated voltage with rated ripple current for 2000hrs at 85°C, the capacitors shall meet the following requirements. | |
| | Capacitance Change | Within ±25% of the initial value. |
| | Dissipation Factor | Not more than 200% of the specified value. |
| Leakage Current | Not more than the specified value. | |
| Low Temperature Stability Impedance Ratio(MAX) | Rated Voltage (V) | 6.3 10 16 25 35 50 160 200 250 350 400 450 (120Hz) |
| | Z(-25°C)/Z(20°C) | 6 4 4 3 2 2 3 3 3 5 5 7 |
| | Z(-40°C)/Z(20°C) | 12 10 8 6 4 3 - - - - - |

◆MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

| Coefficient | Frequency (Hz) | 60 (50) | 120 | 500 | 1k | 10k ≤ |
|---------------|----------------|---------|------|------|------|-------|
| | 1.5~6.8 μF | 0.65 | 1.0 | 1.20 | 1.30 | 1.50 |
| 10~68 μF | 0.8 | 1.0 | 1.20 | 1.30 | 1.50 | |
| 100~1000 μF | 0.8 | 1.0 | 1.10 | 1.15 | 1.20 | |
| 2200~10000 μF | 0.8 | 1.0 | 1.05 | 1.10 | 1.15 | |

◆PART NUMBER

| | | | | | | |
|---------------|--------|-------------------|-----------------------|--------|--------------|-----------|
| □□□ | WA | □□□□□ | □ | □□□ | □□ | DXL |
| Rated Voltage | Series | Rated Capacitance | Capacitance Tolerance | Option | Lead Forming | Case Size |

