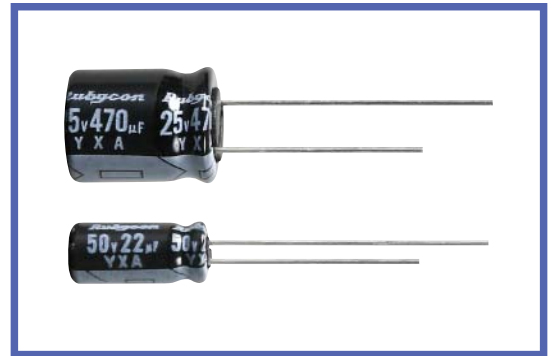


YXA SERIES
105°C Standard
◆ FEATURES

- RoHS compliance.


◆ SPECIFICATIONS

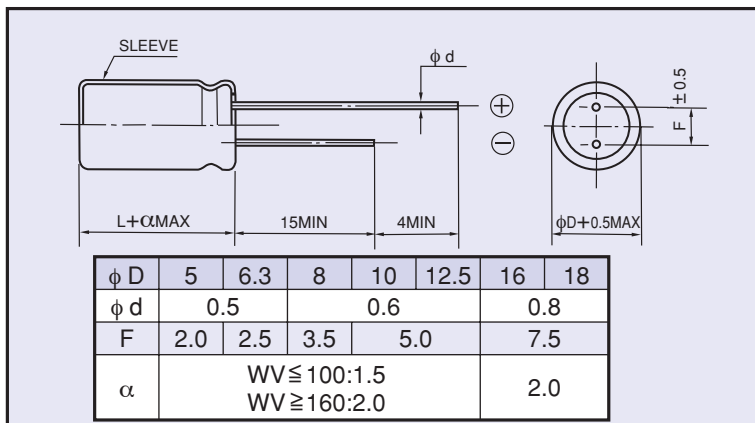
| Items | Characteristics | | | | | | | | | | | | | | | | |
|--|--|--|--------------------------|------|------|------|------|------|------|------|------|------|-----------|-----------------|------|--------------|------|
| | -55 ~ +105°C | -40 ~ +105°C | -25 ~ +105°C | | | | | | | | | | | | | | |
| Category Temperature Range | -55 ~ +105°C | -40 ~ +105°C | -25 ~ +105°C | | | | | | | | | | | | | | |
| Rated Voltage Range | 6.3~100V.DC | 160~250V.DC | 350~450V.DC | | | | | | | | | | | | | | |
| Capacitance Tolerance | ±20%(20°C,120Hz) | | | | | | | | | | | | | | | | |
| Leakage Current(MAX) | 6.3~100V.DC | | 160~450V.DC | | | | | | | | | | | | | | |
| | I=0.01CV or 3µA whichever is greater. (After 2 minutes application of rated voltage) | | CV ≤ 1000 | | | | | | | | | | | | | | |
| | | | CV > 1000 | | | | | | | | | | | | | | |
| | | I=0.1CV+40µA (1minute) | I=0.04CV+100µA (1minute) | | | | | | | | | | | | | | |
| | | I=0.03CV+15µA (5minutes) | I=0.02CV+25µA (5minutes) | | | | | | | | | | | | | | |
| I=Leakage Current(µA) C=Rated Capacitance(µF) V=Rated Voltage(V) | | | | | | | | | | | | | | | | | |
| Dissipation Factor(MAX) (tanδ) | Rated Voltage (V) | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | 160 | 200 | 250 | 350 | 400 | 450 | (20°C,120Hz) | |
| | tanδ | 0.26 | 0.22 | 0.18 | 0.16 | 0.14 | 0.12 | 0.10 | 0.08 | 0.20 | 0.20 | 0.20 | 0.24 | 0.24 | 0.24 | | |
| 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. | | | | | | | | | | | | | | | | |
| | Capacitance Change | Within ±25% of the initial value. | | | | | | | | | | | Case Size | Life Time (hrs) | | | |
| | Dissipation Factor | Not more than 200% of the specified value. | | | | | | | | | | | φ D ≤ 8 | 1000 | | | |
| | Leakage Current | Not more than the specified value. | | | | | | | | | | | φ D = 10 | 2000 | | | |
| φ D ≥ 12.5 | | | | | | | | | | | | | | | | | 3000 |
| Low Temperature Stability Impedance Ratio(MAX) | Rated Voltage (V) | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | 160 | 200 | 250 | 350 | 400 | 450 | (120Hz) | |
| | Z(-25°C)/Z(20°C) | 4 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 6 | 6 | 6 | | |
| | Z(-40°C)/Z(20°C) | 8 | 6 | 4 | 4 | 3 | 3 | 3 | 3 | — | — | — | — | — | — | | |

◆ DIMENSIONS

(mm)

◆ MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient



| Coefficient | Frequency (Hz) | 60(50) | 120 | 500 | 1k | 10k ≤ |
|--------------|----------------|---------|------|------|------|-------|
| | | 0.1~1µF | 0.50 | 1.00 | 1.20 | 1.30 |
| 2.2~4.7µF | | 0.65 | 1.00 | 1.20 | 1.30 | 1.50 |
| 10~47µF | | 0.80 | 1.00 | 1.20 | 1.30 | 1.50 |
| 100~1000µF | | 0.80 | 1.00 | 1.10 | 1.15 | 1.20 |
| 2200~22000µF | | 0.80 | 1.00 | 1.05 | 1.10 | 1.15 |

◆ PART NUMBER

| | | | | | | |
|---------------|--------|-------------------|-----------------------|--------|--------------|-----------|
| □□□ | YXA | □□□□□ | □ | □□□ | □□ | DxL |
| Rated Voltage | Series | Rated Capacitance | Capacitance Tolerance | Option | Lead Forming | Case Size |

