

TXV SERIES

125°C Low ESR, Lead Free Reflow Soldering

◆FEATURES

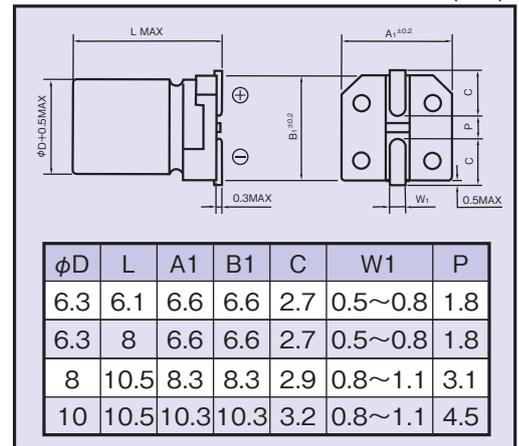
- Load Life : 125°C 1000~2000 hours Low ESR.
- Lead free reflow soldering is available.
- Available for high density mounting.
- RoHS compliance.



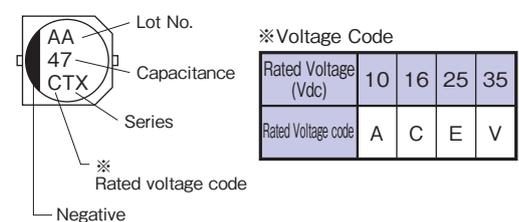
◆SPECIFICATIONS

| Items | Characteristics | |
|--|---|--|
| Category Temperature Range | -40~+125°C | |
| Rated Voltage Range | 10~35Vdc | |
| Capacitance Tolerance | ±20% (20°C, 120Hz) | |
| Leakage Current(MAX) | I=0.01CV or 3μA whichever is greater. (After 2 minutes application of rated voltage) I=Leakage Current(μA) C=Capacitance(μF) V=Rated Voltage(Vdc) | |
| (tanδ) Dissipation Factor(MAX) | Rated Voltage (Vdc) | 10 16 25 35 (20°C, 120Hz) |
| | tanδ | 0.3 0.2 0.18 0.16 |
| Endurance | After applying rated voltage with rated ripple current for specified time at 125°C, the capacitors shall meet the following requirements. | |
| | Capacitance Change | Within ±30% of the initial value. |
| | Dissipation Factor | Not more than 300% of the specified value. |
| | Leakage Current | Not more than the specified value. |
| Low Temperature Stability Impedance Ratio(MAX) | Rated Voltage (Vdc) | 10 16 25 35 (120Hz) |
| | Z(-40°C)/Z(20°C) | 6 4 4 3 |

◆DIMENSIONS (mm)



◆MARKING



◆MULTIPLIER FOR RIPPLE CURRENT

| Frequency (Hz) | 120 | 1k | 10k | 100k≤ |
|----------------|------|------|------|-------|
| 22~33μF | 0.45 | 0.75 | 0.90 | 1.00 |
| 47~100μF | 0.50 | 0.80 | 0.95 | 1.00 |
| 220~470μF | 0.60 | 0.85 | 0.95 | 1.00 |

◆STANDARD SIZE

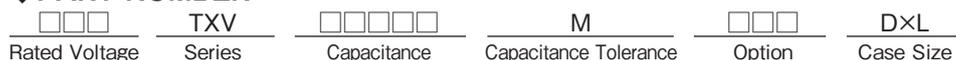
Size φD×L(mm), Rated Ripple Current (mA r.m.s./125°C, 100kHz), ESR(Ω MAX/100kHz)

| Vdc | Cap (μF) | Size (φD×L) | Ripple | ESR | |
|-----|----------|-------------|--------|------|-------|
| | | | | 20°C | -40°C |
| 10 | 100 | 6.3×8 | 140 | 0.3 | 5 |
| | 220 | 6.3×8 | 110 | 0.7 | 11 |
| | 470 | 10×10.5 | 300 | 0.2 | 3 |
| 16 | 47 | 6.3×6.1 | 70 | 1 | 15 |
| | | 6.3×8 | 140 | 0.3 | 5 |

| Vdc | Cap (μF) | Size (φD×L) | Ripple | ESR | |
|-----|----------|-------------|--------|------|-------|
| | | | | 20°C | -40°C |
| 25 | 33 | 6.3×6.1 | 70 | 1 | 15 |
| | 47 | 6.3×8 | 140 | 0.3 | 5 |
| | 100 | 6.3×8 | 110 | 0.7 | 11 |
| | | 8×10.5 | 300 | 0.16 | 2.5 |
| | 220 | 8×10.5 | 220 | 0.3 | 4.5 |
| | | 10×10.5 | 420 | 0.1 | 1.5 |
| 330 | 10×10.5 | 300 | 0.2 | 3 | |

| Vdc | Cap (μF) | Size (φD×L) | Ripple | ESR | |
|-----|----------|-------------|--------|------|-------|
| | | | | 20°C | -40°C |
| 35 | 22 | 6.3×6.1 | 70 | 1 | 15 |
| | 33 | 6.3×8 | 140 | 0.3 | 5 |
| | 47 | 6.3×8 | 110 | 0.7 | 11 |
| | | 8×10.5 | 300 | 0.16 | 2.5 |
| | 100 | 8×10.5 | 220 | 0.3 | 4.5 |
| | | 10×10.5 | 420 | 0.1 | 1.5 |
| 220 | 10×10.5 | 300 | 0.2 | 3 | |

◆PART NUMBER



AMEYA360

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