

# Type TC Axial Leaded Aluminum Electrolytic Capacitors

## 85 °C, High Ripple, General Purpose Capacitor



Type TC is an axial leaded, 85 °C, 1000 hour long life general purpose aluminum electrolytic capacitor with a high ripple current rating and is suitable for consumer electronic equipment applications.

### Highlights

- General purpose
- High ripple current
- Low profile mounting

### Specifications

**Capacitance Range:** 1.0 to 5,000  $\mu\text{F}$   
**Voltage Range:** 16 to 450 WVdc  
**Capacitance Tolerance:** Dia. < .625,  $\pm 20\%$   
Dia.  $\geq$  .625  
16 to 150 WVdc,  $-10 +75\%$   
250 to 450 WVdc,  $-10 +50\%$

**Operating Temperature Range:**  $-40$  °C to  $85$  °C  
**DC Leakage Current:**  $I = 6 \sqrt{CV}$  after 5 minutes, not to exceed 3 mA @  $25$  °C  
 $I$  = leakage current in  $\mu\text{A}$   
 $C$  = Capacitance in  $\mu\text{F}$   
 $V$  = Rated voltage

### Ripple Current Multipliers:

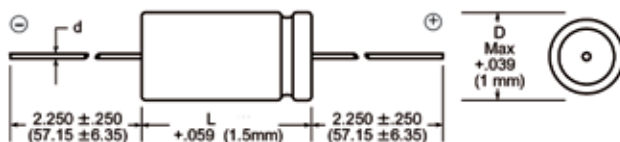
Rated WVdc	Ripple Multipliers			
	60 Hz	400 Hz	1000 Hz	2400 Hz
0 to 50	0.8	1.05	1.10	1.14
51 to 150	0.8	1.08	1.13	1.16
151 & up	0.8	1.15	1.21	1.25

Ambient Temp.	+45 °C	+55 °C	+65 °C	+75 °C	+85 °C
Ripple Multiplier	2.2	2.0	1.7	1.4	1.0

**QA Stability Test:** Apply WVdc for 1,000 h at  $85$  °C

- Capacitance change  $\leq 15\%$  from initial limits
- DC leakage current meets initial limits
- ESR  $\leq 150\%$  of initial measured value

### Outline Drawing



For diameters less than .625 (15.88) lead lengths are 1.378 (35.0) Minimum.

Parts are supplied with PVC insulating sleeve. Add .010" to diameter and .125" max to length to allow for insulation.



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