



# ALUMINUM ELECTROLYTIC CAPACITOR

## TYPE T, TF

### MINIATURE STANDARD SIZE, AXIAL LEADS



#### FEATURES:

- **Type T** -- Miniature Standard size, axial leads
- **Type TF** -- Miniature Standard size, axial leads with longer load life

#### SPECIFICATIONS:

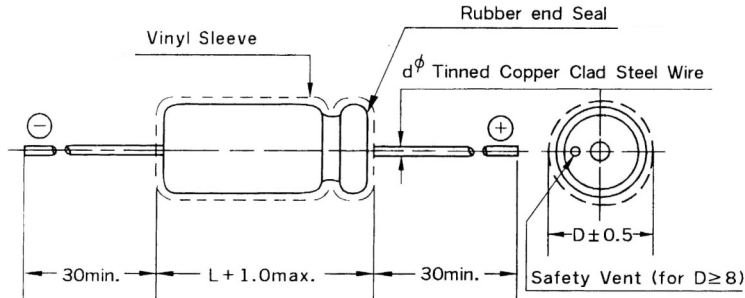
Item	Type T				Type TF				
Life (at 85°C)	1000 Hours				2000 Hours				
Operating Temperature Range	-40°C to +85°C								
Capacitance tolerance	±20% at 120 Hz, 20°C								
Leakage Current (I=DC Current in µA max.)	$I \leq 0.01CV + 3 \mu A$ , measured after 3 minutes application of rated working voltage. Where, C =Rated Capacitance (µF) V =Rated Working Voltage (V DC)								
Working Voltage (DC)	6.3V	10V	16V	25V	35V	50V	63V	100v	
Surge Voltage (DC)	8V	13V	20V	32V	44V	63V	79V	125V	
Dissipation Factor (tan δ) max. at 120 Hz	0.24	0.20	0.17	0.15	0.12	0.10	0.10	0.08	
(For capacitance exceeds 1000 µF, the value of tan δ is increased by 0.02 for every additional 1000 µF.)									
Impedance Ratio at Low Temperature at 120 Hz	W.V.	6.3V	10V	16V	25V	35V	50V	63V	100V
	Z@ -25°C / Z@ +20°C	4	3	2	2	2	2	2	2
	Z@ -40°C / Z@ +20°C	8	6	6	4	4	3	3	3
Load Life Test (at 85°C) (after the designated hours of application of the rated voltage)	<b>Type T</b> for 1000 hours				<b>Type TF</b> for 2000 hours				
	The capacitor shall meet following limits: Capacitance Change ≤±20% of initial value Leakage Current ≤specified maximum value Dissipation Factor ≤200% of specified maximum value								
Shelf Life Test (after the designated hours exposing at 85°C without voltage applied)	<b>Type T</b> for 500 hours				<b>Type TF</b> for 1000 hours				
	The capacitor shall meet following limits: Capacitance Change ≤±20% of initial value Leakage Current ≤specified maximum value Dissipation Factor ≤200% of specified maximum value								



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Dimension in mm

<b>D φ</b>	8	10	13	16	18	22
<b>d φ</b>	0.6	0.6	0.6	0.8	0.8	0.8

### CASE SIZE (DxL mm) AND PERMISSIBLE RIPPLE CURRENT (mA rms, at 85°C 120 Hz):

W.V.	6.3V		10V		16V		25V		35V		50V		63V		100V		
	μF	DxL	R.C.	DxL	R.C.	DxL	R.C.	DxL	R.C.	DxL	R.C.	DxL	R.C.	DxL	R.C.	DxL	R.C.
22																8x16	133
33														8x16	154	8x20	190
47												8x16	174	8x16	214	10x20	237
100								8x16	215	8x16	232	8x20	296	10x16	326	10x25	377
220	8x16	215	8x16	231	8x16	298	8x20	319	10x16	401	10x20	459	10x25	527	13x30	625	
330	8x16	305	8x16	327	8x20	365	10x16	454	10x20	514	10x25	613	13x25	675	16x30	730	
470	8x16	364	8x20	390	10x16	460	10x20	542	10x25	613	13x25	731	13x30	780	16x40	942	
1000	10x20	617	10x20	662	10x25	775	13x25	873	13x30	955	16x30	1111	16x40	1249			
2200	13x25	929	13x25	1051	13x30	1125	16x30	1344	16x40	1421	18x43	1699	22x41	2115			
3300	13x27	1150	13x32	1288	16x30	1454	16x33	1611	16x40	1640	22x41	2027					