

AXIAL TYPE ALUMINUM ELECTROLYTIC CAPACITORS

Suntan®

NON-POLARIZED (BI-POLARIZED)

TS13AS



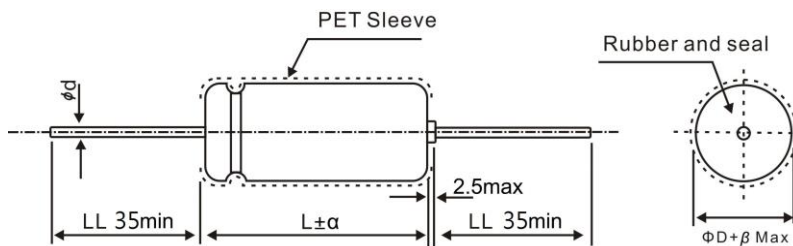
FEATURES

- 105°C, 2,000 hours assured
- Non-polarized, suitable for use in circuits whose polarity is sometimes reversed or unknown.
- Excellent frequency characteristics in the audio range.

I T E M S C H A R A C T E R I S T I C			
Operating Temperature Range(°C)	-40°C ~ +105°C		
Capacitance Tolerance	±10% (K), ±20% (M) (at 20°C, 120Hz)		
Rated Voltage	50V, 100V.DC		
Leakage Current (20°C)	$I \leq 0.04CV + 3$ (u A) (after 5 minutes applying the rated DC working Voltage at 20°C) Where: I=Leakage Current (u A) , C=rated Capacitance (u F) , V= working Voltage (V)		
Dissipation Factor (tan δ) (at 20°C, 120Hz)	W.V	50	100
	tan δ	0.10	0.10
Surge Voltage (20°C)	W.V	50	100
	S.V	63	125
Low Temperature Stability	Impedance ratio at 120Hz		
	Rated Voltage (V)	50	100
	Z(-25°C) / +20°C	2	2
	Z(-40°C) / +20°C	3	3
Load Life Test	After 2,000 hours application of rated voltage at 105°C, capacitors meet the characteristics requirement listed as below:		
	Capacitance Change	Within ±20% of initial value	
	Dissipation Factor	Less than 200% of specified value	
Shelf Life Test	Leakage Current	Within specified value	
	After leaving capacitors under no load at 105°C for 1,000 hours and applying Voltage they meet the specified value for load life characteristics listed above.		

DIAGRAM OF DIMENSIONS

Unit: mm



ØD	6.3	8	10	13	16
Ød	0.6	0.6	0.6	0.6	0.8
α	1.5	1.5	2.0	2.0	2.0
β	0.5	0.5	1.0	1.0	1.0

CASE SIZE & MAX RIPPLE CURRENT

DIMENSIONS: Diameter (ØD) x Length (L) mm

RIPPLE CURRENT. mA/rms at 105°C, 120Hz

V.DC µF	50V (1H)		100V (2A)	
	ØDxL	R.C	ØDxL	R.C
1.0	6.3x13	16	6.3x13	18
2.2	6.3x13	23	6.3x13	27
3.3	6.3x13	29	6.3x13	35
4.7	6.3x13	34	6.3x13	42
10	6.3x13	54	8x16	69
22	8x13	89	10x21	120
33	10x17	109	10x21	153
47	10x17	152	13x22	203
100	10x21	232	16x28	317
220	13x27	381	16x36	501
330	16x28	500	--	--
470	16x33	668	--	--

Note: Specifications are subject to change without notice. For more detail and update, please visit our website.