

1、SCOPE

This specification applies to THC series high-energy tantalum electrolytic capacitor produced by Shenzhen Be-Top Electronic Components Co., Ltd.



2、Brief Introduction

THC Series high-energy tantalum capacitor is fully-sealed with polar radial leads and represents a new level of technology. It's characterized by excellent electrical performance, high reliability, long usage life and high energy density in unit volume. It is small in size but has high energy-storage ability. THC series tantalum capacitor plays the role of a battery in energy conversion circuit and pulse circuit to store energy and provide power delay in circuit. THC series tantalum capacitor is widely used for defense purpose such as used in radar system, fighter screen, etc.

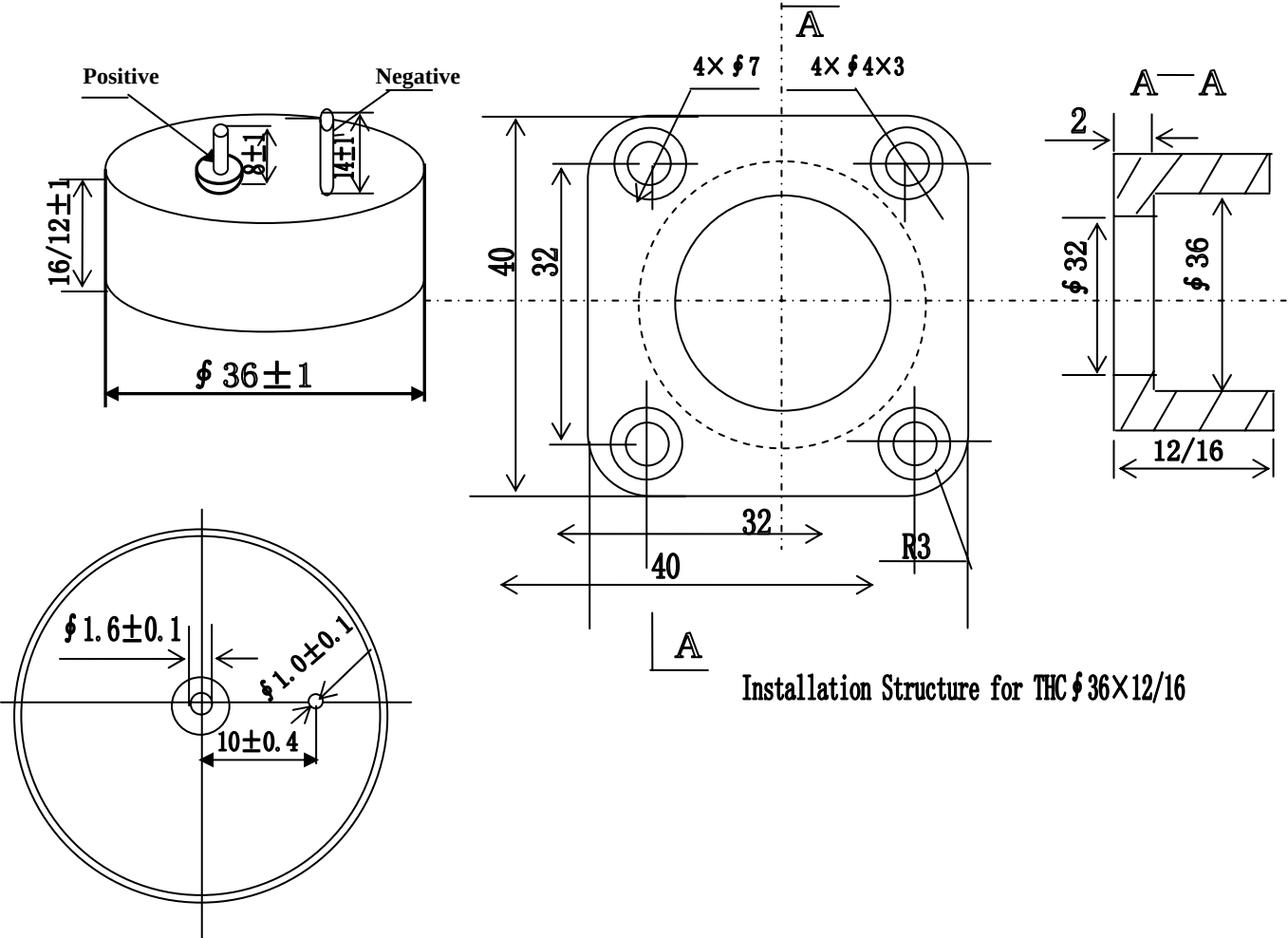
3、General Specification

- 1) Operating Temperature: $-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$ (using derating voltage when the temperature is higher than 85°C). (see table 1)
- 2) Capacitance Tolerance: $\pm 20\%$ (M), $-10\% \sim +30\%$ (S)
- 3) Storage Temperature: $-62^{\circ}\text{C} \sim +130^{\circ}\text{C}$
- 4) Electrical Characteristics. (see table 1)
- 5) Product Size and Installation Structure. (see picture)

Table 1: Electrical Characteristics

Rated Voltage (V)	Derating Voltage (V)	Surge Voltage (V)	Capacitance (μF)	DF (%)100Hz	ESR(Ω)1 KHz	DC Leakage (μA)		Impedance (Ω)	Change of Capacitance (%)		Dimension D $\times$ H(mm)
						25 $^{\circ}\text{C}$	85 $^{\circ}\text{C}$, 125 $^{\circ}\text{C}$		-55 $^{\circ}\text{C}$	+85 $^{\circ}\text{C}$	
10	6	11	100000 150000	180	0.05	350	3500	1	-80	+160	36 $\times$ 12 36 $\times$ 16
16	9	17.6	60000 90000	165	0.05	350	3500	1	-80	+160	36 $\times$ 12 36 $\times$ 16
25	15	27.5	36000 54000	130	0.05	350	3500	1	-75	+160	36 $\times$ 12 36 $\times$ 16
35	20	38.5	24000 36000	95	0.05	350	3500	1	-70	+160	36 $\times$ 12 36 $\times$ 16
50	30	55	16000 24000	70	0.05	400	4000	1.2	-60	+160	36 $\times$ 12 36 $\times$ 16
63	38	70	8000 12000	50	0.05	400	4000	1.4	-50	+100	36 $\times$ 12 36 $\times$ 16
80	48	88	5600 8200	40	0.1	500	5000	1.6	-40	+100	36 $\times$ 12 36 $\times$ 16
100	60	110	2400 3600	35	0.1	500	5000	1.8	-30	+80	36 $\times$ 12 36 $\times$ 16
110	66	121	1200 1800	35	0.1	500	5000	2	-25	+60	36 $\times$ 12 36 $\times$ 16
125	75	138	1100 1600	30	0.1	500	5000	2.4	-25	+50	36 $\times$ 12 36 $\times$ 16

Product Size and Installation Structure



Installation Structure for THC $\phi 36 \times 12/16$

Figure for THC $\phi 36 \times 12/16$

How to order

THC-12000uF M 63V

THC	12000uF	M	63V
Type	Capacitance	Tolerance	Rated Voltage
THC series high-energy tantalum capacitor	12000uF	M=±20% S=−10%~+30%	10V
			16V
			25V
			35V
			50V
			63V
			80V
			100V
			110V
			125V