



THC2W High Energy Tantalum Hybrid Capacitor
(Hermetic sealed & Military standard)

Characteristics and Applications

- ◆ All tantalum case, hermetic sealed, Cylindrical, radial leads, Polar, with screws, convenient to fix
- ◆ This product is made up of tantalum capacitor and electrochemical capacitor
- ◆ Stable electric performance, high reliability, long life, large energy density per unit volume, Store much energy. Capacitance larger than THC1W.
- ◆ Used as battery in Energy conversion circuit and power pulse circuit, Perform Energy storage, filter, power-off delay in circuit.
- ◆ Standard: QJ/PWV304-2008

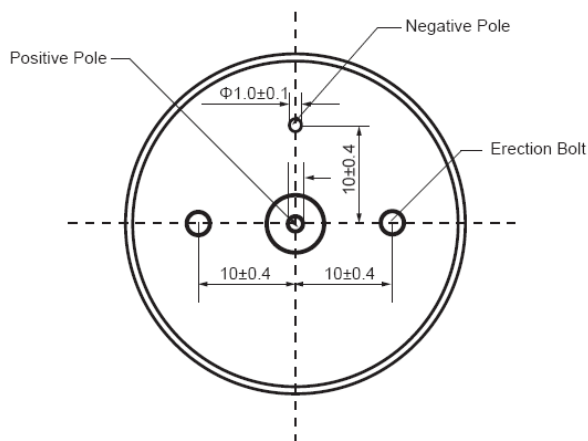
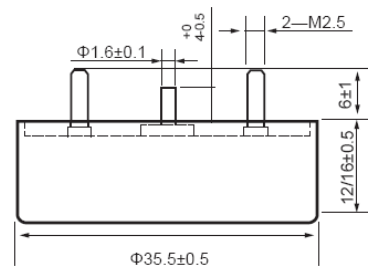
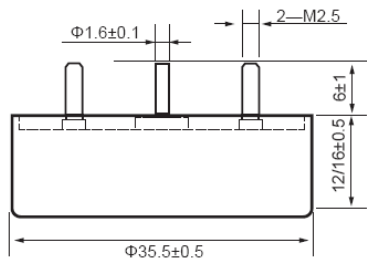
How to order: THC2W-10V100000 μ F-M: 100pc

Technical Performance

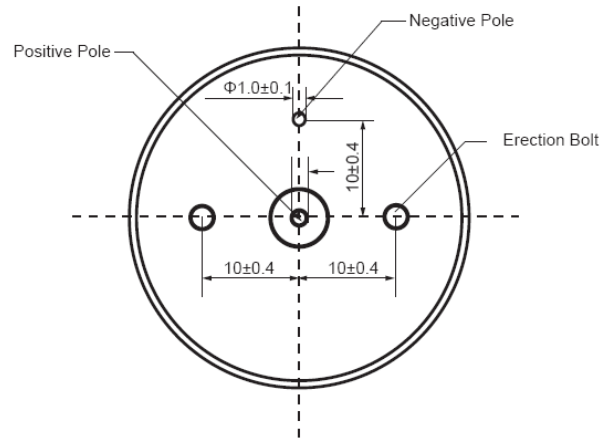
Temperature range: -55 $^{\circ}$ C~+125 $^{\circ}$ C (>85 $^{\circ}$ C use derated voltage)
Store environment temperature: -62 $^{\circ}$ C~+130 $^{\circ}$ C
Capacitance tolerance: M= \pm 20%; Q=-10%~+30%
Electric performance: see table1



Size and installation ϕ 36*12/16 (mm)



THC2W ϕ 36x12/16outline (A)
Unit:mm



THC2W ϕ 36x12/16outline (B)
Unit:mm

Table1 THC2W High Energy Tantalum Hybrid Capacitor's data and size: $\phi 36*12/16$ (mm)

Rated Voltage (V)	Derated Voltage (V)	Surge Voltage (V)	Capacitance (μF)	tg δ (%) 100HZ	ESR (Ω) 1KHZ	Leakage current/ μA		capacitance (Ω)		capacitance change (%)	
						25 $^{\circ}C$	85/125 $^{\circ}C$	-55 $^{\circ}C$	-55 $^{\circ}C$	+85 $^{\circ}C$	
10	6	11	100000 150000	180	0.035 0.025	300	1800	1	-80	+160	
16	9.5	17.6	60000 90000	165	0.035 0.025	300	1800	1	-80	+160	
25	15	27.5	36000 54000	130	0.04 0.035	300	1800	1	-75	+160	
35	20	38.5	24000 36000	95	0.04 0.035	300	1800	1	-70	+160	
50	30	55	16000 24000	70	0.04 0.035	400	2400	1.2	-55	+135	
63	38	70	8000 12000	50	0.04 0.035	400	2400	1.4	-45	+90	
80	48	88	5600 8200	40	0.06 0.04	500	3000	1.6	-40	+90	
100	60	110	2400 3600	35	0.08 0.05	500	3000	1.8	-30	+80	
110	66	121	1200 1800	35	0.08 0.075	500	3000	2	-25	+60	
125	75	138	1100 1600	30	0.08 0.075	500	3000	2.4	-20	+50	

Notes:

- 1, Tantalum capacitors can't be measured by multimeter (Easily cause irreversible damage and lead to reject)
- 2, Capacitance, DF measure frequency: 100HZ, DC offset voltage $U_0=2.2^{0-1.0}V$, Exchange offset voltage $U_1=1.0^{0-0.5}V$ (effective value), measure method is by series equivalent circuit.
- 3, Measure the leakage current above 125 $^{\circ}C$, please use derated voltage. DLC read within 5 minute.
- 4, Special size and big capacitance products, please negotiate with us