

# Hybrid Tantalum Capacitor - HTHC2W Series

## ◆Features:

1. All tantalum shell, hermetic, cylindrical, lead out in the same direction, polarized, with screw nail structure, easy to install.
2. The product is a hybrid capacitor composed of tantalum electrolytic capacitors and electrochemical capacitors. It is the first innovative product in China with small size and large energy storage.
3. Excellent and stable electrical performance, high reliability, long life, energy per unit volume high density and larger capacity than THC1W series.
4. In the energy conversion circuit, it can act as a battery, providing energy storage for the circuit, power-off delay and other functions.
5. A represents the lead form, including type A and type B.



## ◆Specifications:

1. Operating Temperature Range: -55°C~ +125°C. For the Derated Design please see guide line on page 3~5
2. Capacitance Tolerance: Q: -10% ~ +30%, K: ± 10%, M: ± 20%
3. Storage temperature: -62°C~ +130°C

## ◆Electrical Characteristics

**Table 1 Rated Voltage, Category Voltage, Surge Voltage, Nominal Capacitance and Main Features**

Rated Voltage(V)	Category Voltage(V)	Surge Voltage(V)	Nominal Capacitance (μF)	tg δ (%)	ESR (Ω) 1kHz	Leakage Current (μA)			Impedance 100Hz	Capacitance Variation(%)		Dimension D X H (mm)	Max Weight (g)
						25°C	85°C	125°C	55°C	55°C	85°C		
10	6	11	100000	180	0.035	300	1800	1	-80	160	35.5×12	75	
			150000		0.025						35.5×16	100	
16	9.5	17.6	60000	165	0.035	300	1800	1	-80	160	35.5×12	75	
			90000		0.025						35.5×16	100	
25	15	27.5	36000	130	0.04	300	1800	1	-75	160	35.5×12	75	
			54000		0.035						35.5×16	100	
35	20	38.5	24000	95	0.04	300	1800	1	-70	160	35.5×12	75	
			36000		0.035						35.5×16	100	
50	30	55	11000	65	0.1	300	2400	1.2	-60	120	35.5× 10	62	
			12000	65	0.1	300	2400		-60	120	35.5× 12	75	
			16000	70	0.04	400	2400		-55	135	35.5× 12	75	
			18000	70	0.04	400	2400		-55	135	35.5× 12	78	
			24000	70	0.035	400	2400		-55	135	35.5× 16	100	
63	38	70	8000	50	0.04	400	2400	1.4	-45	90	35.5×12	75	
			12000		0.035						35.5×16	100	
80	48	88	5600	40	0.06	500	3000	1.6	-40	90	35.5×12	80	
			8200		0.04						35.5×16	100	
100	60	110	2400	35	0.08	500	3000	1.8	-30	80	35.5×12	80	
			3800		0.05						35.5×12	80	
			3600		0.05						35.5×16	110	
			5700		0.05						35.5×16	110	