Hermetically Sealed Axial Lead Solid Tantalum Capacitors



The Type THF is ideal for use in switching regulators and high frequency power supplies because of its high ripple current and low ESR capabilities. It is an axial lead solid tantalum capacitor constructed with a rugged hermetically sealed metal case, insulated with an outer polyester wrap. The THF assures a small case size for high capacitance, and is extremely stable over the rated temperature range.

Highlights ———

- High Ripple Current
- Low ESR
- Lower Impedance at High Frequency
- Extremely Stable Capacitance
- Long Life
- Moisture & Solvent Resistant
- Small Size

Specifications

Capacitance Range: 5.6 µF to 330 µF

Voltage Range: 6 WVdc to 50 WVdc @ 85 °C

Capacitance Tolerance: -55 °C to +125 °C (With proper derating)

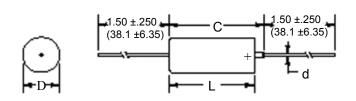
Operating Temperature: ±10% (K), ±20% (M)

At +25 °C - (See Ratings)

DC Leakage: At +85 °C - 10 x Ratings limit

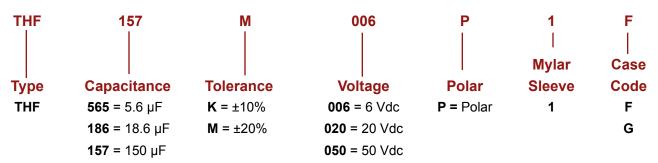
At +125 °C - 12.5 x Ratings limit

Outline Drawing -



	Uninsulated		Insu	ılated	Inches (mm)			
	D	L	D	L		d	Quantity	
Case	±.005	±.031	±.010	±.031	С	±.001	Per	
Code	(±.13)	(±.79)	(±.25)	(±.79)	Maximum	(±.03)	Reel	
F	.279(7.09)	.650(16.51)	.289(7.34)	.686(17.42)	.822(20.88)	.025(.64)	500	
G	.341(8.66)	.750(19.05)	.351(8.92)	.786(19.96)	.922(23.42)	.025(.64)	400	

Part Numbering System



Type THF Solid Tantalum Capacitors

Ratings

			Max	Max	Max	Max Ripple
	Catalog	Case	DCL	DF %	ESR (ohms)	RMS Amps
Сар	Part Number	Code	@ +25 °C	@ +25 °C	@ +25 °C	@ 40 kHz
(μF)			(µA)	1 kz	100 kHz	+25°C
/			6 WVdc @ 8			
			4 WVdc @ 12			
150	THF157K006P1F	F	4.5	10	0.065	3.3
180	THF187K006P1F	F	5.5	10	0.060	3.4
270	THF277K006P1G	G	6.5	10	0.050	4.1
330	THF337K006P1G	G	7.5	12	0.045	4.3
		•	10 WVdc @ 8	85 °C		
			7 WVdc @ 12	25 °C		
82	THF826K010P1F	F	4	8	0.085	2.9
100	THF107K010P1F	F	5	8	0.075	3.0
120	THF127K010P1F	F	6	8	0.070	3.2
180	THF187K010P1G	G	9	8	0.060	3.7
220	THF227K010P1G	G	10	10	0.055	3.9
			15 WVdc @ 8			
			0 WVdc @ 1			
56	THF566K015P1F	F	4	6	0.100	2.6
68	THF686K015P1F	F	5	6	0.095	2.7
120	THF127K015P1G	G	9	8	0.070	3.5
150	THF157K015P1G	G	10	8	0.065	3.6
			20 WVdc @ 8			
			3 WVdc @ 1			
27	THF276K020P1F	F	2.5	5	0.145	2.2
33	THF336K020P1F	F	3.5	5	0.130	2.3
39	THF396K020P1F	F	4.0	5	0.120	2.4
47	THF476K020P1F	F	4.5	6	0.110	2.5
56	THF566K020P1G	G	5.5	6	0.100	2.9
68	THF686K020P1G	G	7.0	6	0.095	3.0
82	THF826K020P1G	G	8.0	6	0.085	3.1
100	THF107K020P1G	G	10.0	8	0.075	3.3
			35 WVdc @ 8			
10	TUE106K02FD1F		3 WVdc @ 1		0.161	4.5
10	THF106K035P1F	F	4.0	4	0.161	1.5
22 27	THF226K035P1F THF276K035P1G	F G	4.0 4.5	4	0.160	2.1
27 33	THF336K035P1G	G G	4.5 5.5	4 5	0.145 0.130	2.4 2.5
33 39	THF396K035P1G	G	5.5 7.0	5 5	0.130	2.5 2.6
39 47	THF476K035P1G	G	7.0 8.0	5 5	0.120	2.6
71	THE TOROUGH IG		o.u 50 WVdc @ 8		0.110	۷.1
			3 WVdc @ 1			
5.6	THF565K050P1F	F	2.2	3	0.300	1.5
6.8	THF685K050P1F	F	2.2	3	0.275	1.6
8.2 THF825K050P1F		F	2.5	3	0.250	1.6
10.0	THF106K050P1F	F	2.5	3	0.230	1.7
12.0	THF126K050P1F	F	3.0	3	0.210	1.8
15.0	THF156K050P1F	F	4.0	3	0.190	1.9
18.0	THF186K050P1F	F	4.5	4	0.175	2.0
22.0	THF226K050P1G	G	5.5	4	0.160	2.3

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