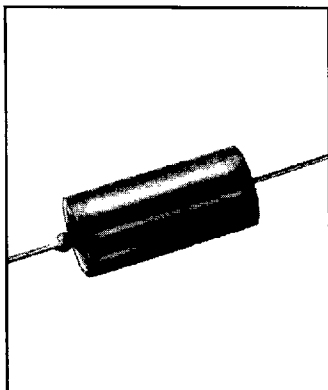


Type THF Solid Tantalum Capacitors

MALLORY



- High Ripple Current
- Low ESR
- Lower Impedance at High Frequencies
- Small Size
- Extremely Stable Capacitance
- Hermetic Seal
- Long Life
- Switching Regulators
- High Frequency Power Supplies
- By-pass Filtering

GENERAL SPECIFICATIONS

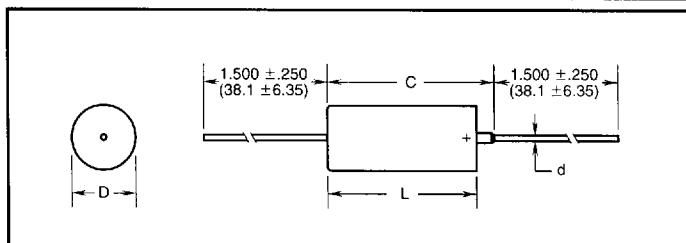
Operating Temperature:
-55°C to +125°C
(With proper derating)

Voltage Range:
6 to 50 WVDC @ 85°C

Capacitance Range:
5.6 μF to 330 μF

Capacitance Tolerance:
Standard ±20%
(±10% by special order)

DC Leakage:
At +25°C - See Table Limit
At +85°C - 10 x Table Limit
At +125°C - 12.5 x Table Limit



Case Code	Uninsulated		Insulated		C Maximum	d ±.001 (±.03)
	D ±.005 (±.13)	L ±.031 (±.79)	D ±.010 (±.25)	L ±.031 (±.79)		
F	.279(7.09)	.650(16.51)	.289(7.34)	.686(17.42)	.822(20.88)	.025(.64)
G	.341(8.66)	.750(19.05)	.351(8.92)	.786(19.96)	.922(23.42)	.025(.64)

Cap (μF)	Case Code	Max DCL @ +25°C (μA)	Max D.F. % @ +25°C 1 kHz	Max ESR (ohms) @ 100kHz +25°C	Max Ripple RMS Amps @ 40kHz +25°C	Catalog Number
6 WVDC @ 85°C 4 WVDC @ 125°C						
150	F	4.5	10	.065	3.3	THF157*006P1F
180	F	5.5	10	.060	3.4	THF187*006P1F
270	G	6.5	10	.050	4.1	THF277*006P1G
330	G	7.5	12	.045	4.3	THF337*006P1G

Cap (μF)	Case Code	Max DCL @ +25°C (μA)	Max D.F. % @ +25°C 1 kHz	Max ESR (ohms) @ 100kHz +25°C	Max Ripple RMS Amps @ 40kHz +25°C	Catalog Number
35 WVDC @ 85°C 23 WVDC @ 125°C						
10	F	4.0	4	.161	1.5	THF106*035P1F
22	F	4.0	4	.160	2.1	THF226*035P1F
27	G	4.5	4	.145	2.4	THF276*035P1G
33	G	5.5	5	.130	2.5	THF336*035P1G
39	G	7.0	5	.120	2.6	THF396*035P1G
47	G	8.0	5	.110	2.7	THF476*035P1G

Cap (μF)	Case Code	Max DCL @ +25°C (μA)	Max D.F. % @ +25°C 1 kHz	Max ESR (ohms) @ 100kHz +25°C	Max Ripple RMS Amps @ 40kHz +25°C	Catalog Number
10 WVDC @ 85°C 7 WVDC @ 125°C						
82	F	4.0	8	.085	2.9	THF826*010P1F
100	F	5.0	8	.075	3.0	THF107*010P1F
120	F	6.0	8	.070	3.2	THF127*010P1F
180	G	9.0	8	.060	3.7	THF187*010P1G
220	G	10	10	.055	3.9	THF227*010P1G

Cap (μF)	Case Code	Max DCL @ +25°C (μA)	Max D.F. % @ +25°C 1 kHz	Max ESR (ohms) @ 100kHz +25°C	Max Ripple RMS Amps @ 40kHz +25°C	Catalog Number
50 WVDC @ 85°C 33 WVDC @ 125°C						
5.6	F	2.2	3	.300	1.5	THF565*050P1F
6.8	F	2.2	3	.275	1.6	THF685*050P1F
8.2	F	2.5	3	.250	1.6	THF825*050P1F
10	F	2.5	3	.230	1.7	THF106*050P1F
12	F	3.0	3	.210	1.8	THF126*050P1F
15	F	4.0	3	.190	1.9	THF156*050P1F
18	F	4.5	4	.175	2.0	THF186*050P1F
22	G	5.5	4	.160	2.3	THF226*050P1G

Cap (μF)	Case Code	Max DCL @ +25°C (μA)	Max D.F. % @ +25°C 1 kHz	Max ESR (ohms) @ 100kHz +25°C	Max Ripple RMS Amps @ 40kHz +25°C	Catalog Number
15 WVDC @ 85°C 10 WVDC @ 125°C						
56	F	4.0	6	.100	2.6	THF566*015P1F
68	F	5.0	6	.095	2.7	THF686*015P1F
120	G	9.0	8	.070	3.5	THF127*015P1G
150	G	10	8	.065	3.6	THF157*015P1G

Cap (μF)	Case Code	Max DCL @ +25°C (μA)	Max D.F. % @ +25°C 1 kHz	Max ESR (ohms) @ 100kHz +25°C	Max Ripple RMS Amps @ 40kHz +25°C	Catalog Number
20 WVDC @ 85°C 13 WVDC @ 125°C						
27	F	2.5	5	.145	2.2	THF276*020P1F
33	F	3.5	5	.130	2.3	THF336*020P1F
39	F	4.0	5	.120	2.4	THF396*020P1F
47	F	4.5	6	.110	2.5	THF476*020P1F
56	G	5.5	6	.100	2.9	THF566*020P1G
68	G	7.0	6	.095	3.0	THF686*020P1G
82	G	8.0	6	.085	3.1	THF826*020P1G
100	G	10	8	.075	3.3	THF107*020P1G

* Indicate capacitance tolerance:
K = 10%
M = 20%

Solid Tantalum Capacitors