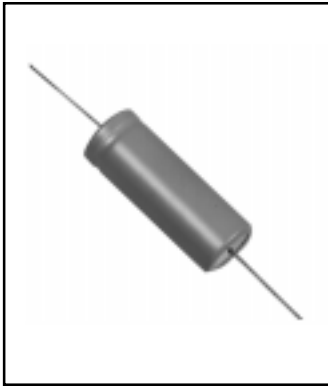


Type TC Axial Leaded Capacitors

MALLORY



- 85°C General Purpose
- Axial Leads for Low Profile Mounting
- Long Life
- High Reliability with High Ripple, Suitable for Consumer Electronic Equipment

GENERAL SPECIFICATIONS

Operating Temperature:
-40°C to +85°C

Voltage Range:
16 WVDC to 450 WVDC

Capacitance Range:
1 μ F to 5,000 μ F

Capacitance Tolerance:
.625 diameter & larger:
6 to 150 WVDC -10% +75%
Over 150 WVDC -10% +50%
Under .625 Dia. $\pm$ 20%

DC Leakage Current:

$I = 6 \sqrt{CV}$ after 5 minutes

Not to exceed 3 mA @ 25°C

C = Capacitance in μ F

V = Rated Voltage

I = Leakage Current in μ A

QA Stability Test:

Apply WVDC for 1,000 hrs at 85°C

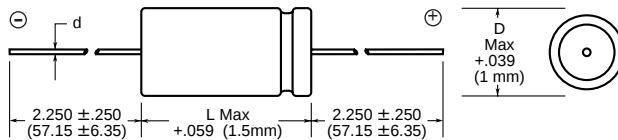
- Capacitance change $\pm$ 15% from initial limits
- DC leakage current meets initial limits
- ESR $\leq$ 150% of initial measured value

The maximum ripple current at 85°C and 120 Hz for TC capacitors is shown in the Standard Rating Table. Maximum ripple current may be adjusted by the multipliers in the following tables:

Rated WVDC	Ripple Multipliers			
	60 Hz	400 Hz	1000 Hz	2400 Hz
0 to 50	0.8	1.05	1.10	1.14
51 to 150	0.8	1.08	1.13	1.16
151 & up	0.8	1.15	1.21	1.25

Ambient Temperature	Ripple Multiplier
+85°C	1.0
+75°C	1.4
+65°C	1.7
+55°C	2.0
+45°C	2.2

Outline Dimensions



For diameters less than .625 (15.88) lead lengths are 1.378 (35.0) Minimum.

Parts are supplied with PVC insulating sleeve. Add .010" to diameter and .125" max to length to allow for insulation.

Cap μF	Max ESR Ohms 120Hz 25°C	Max Ripple Amps 120Hz 85°C	Size (Inches)			Catalog Number
			D Diameter	L Length	d	
16 WVDC; 20 VDC Surge						
3,000	0.11	2.066	0.875	1.625	0.040	TC1530
4,000	0.08	2.518	0.875	1.875	0.040	TC1540
4,000	0.07	1.450	0.866	1.575	0.040	TC1540A
5,000	0.07	3.217	0.875	2.625	0.040	TC1550
25 WVDC; 30 VDC Surge						
470	0.38	0.550	0.394	0.787	0.032	TC2505A
1,500	0.14	1.881	0.750	2.125	0.040	TC2515
1,500	0.12	1.225	0.709	1.575	0.040	TC2515A
2,000	0.11	2.204	0.875	1.875	0.040	TC2520
2,000	0.09	1.350	0.866	1.575	0.040	TC2520A
3,000	0.07	3.108	0.875	2.625	0.040	TC2530
4,000	0.06	3.779	1.000	2.625	0.040	TC2540
4,000	0.07	1.450	0.866	1.575	0.040	TC2540A
5,000	0.05	4.136	1.000	2.625	0.040	TC2550
50 WVDC; 65 VDC Surge						
22	6.09	0.073	0.236	0.630	0.032	TC36A
47	3.14	0.130	0.315	0.630	0.032	TC39A
1,000	0.08	2.949	0.875	2.625	0.040	TC50100
1,000	0.12	1.447	0.866	1.575	0.040	TC50100A
1,500	0.07	3.423	1.000	2.625	0.040	TC50150
2,000	0.07	3.448	1.000	2.625	0.040	TC50200
2,000	0.09	1.350	0.866	1.575	0.040	TC50200A
3,000	0.05	4.766	1.000	3.625	0.040	TC50300
5,000	0.03	5.820	1.000	3.625	0.040	TC50500
5,000	0.56	3.305	0.866	1.575	0.040	TC50500A

Cap μF	Max ESR Ohms 120Hz 25°C	Max Ripple Amps 120Hz 85°C	Size (Inches)			Catalog Number
			D Diameter	L Length		
75 WVDC; 95 VDC Surge						
100	0.77	0.597	0.625	1.375	0.040	TC75101
100	2.66	0.270	0.512	1.181	0.032	TC75101A
250	0.37	1.024	0.750	1.625	0.040	TC75251
500	0.19	1.765	0.875	2.125	0.040	TC75501
1,000	0.10	2.344	1.000	1.625	0.040	TC75102
2,000	0.05	3.991	1.000	2.625	0.040	TC75202
100 WVDC; 125 VDC Surge						
100	0.36	0.974	0.750	1.375	0.040	TC10101
100	3.32	0.419	0.630	1.299	0.032	TC10101A
150	0.24	1.276	0.750	1.625	0.040	TC10151
150	1.34	0.823	0.709	1.575	0.040	TC10151A
250	0.15	1.885	0.875	1.875	0.040	TC10251
500	0.08	3.251	1.000	2.625	0.040	TC10501
1,000	0.08	3.918	1.000	3.875	0.040	TC10102
1,000	0.12	1.447	0.866	1.575	0.040	TC10102A
1,500	0.06	4.495	1.000	3.625	0.040	TC10152
150 WVDC; 175 VDC Surge						
80	1.96	0.670	0.750	1.625	0.040	TC492
100	0.70	0.748	0.750	1.625	0.040	TC493
100	3.32	0.555	0.709	1.575	0.040	TC493A
150	0.47	0.993	0.875	1.625	0.040	TC495
200	0.35	1.293	0.875	2.125	0.040	TC496
300	0.24	1.687	1.000	2.125	0.040	TC499
500	0.15	2.362	1.000	2.625	0.040	TC4990

Type TC Axial Leaded Capacitors

MALLORY

Cap μF	Max ESR Ohms 120Hz 25°C	Max Ripple Amps 120Hz 85°C	Size (Inches)			Catalog Number
			D Diameter	L Length	d	
250 WVDC; 300 VDC Surge						
5	70.60	0.060	0.394	0.787	0.032	TC50XA
8	15.27	0.197	0.625	1.125	0.032	TC51
10	12.22	0.220	0.625	1.125	0.032	TC52
10	33.20	0.890	0.394	0.984	0.032	TC52A
12	8.65	0.262	0.625	1.125	0.032	TC53
16	7.64	0.304	0.625	1.375	0.032	TC54
20	6.13	0.345	0.750	1.125	0.040	TC55
20	15.10	0.175	0.512	1.181	0.032	TC55A
30	4.09	0.461	0.750	1.375	0.040	TC57
30	10.10	0.241	0.630	1.181	0.032	TC57A
40	2.69	0.573	0.750	1.625	0.040	TC58
40	8.58	0.280	0.630	1.299	0.032	TC58A
50	2.15	0.640	0.750	1.625	0.040	TC59
50	7.06	0.318	0.630	1.299	0.032	TC59A
100	1.08	1.220	0.875	2.625	0.040	TC1265
100	3.32	0.555	0.866	1.575	0.040	TC1265A
160	0.30	1.649	1.000	2.625	0.040	TC1266
225	0.22	2.105	1.000	3.125	0.040	TC1267
300 WVDC; 350 VDC Surge						
150	0.36	1.624	1.000	3.125	0.040	TC593
200	0.28	1.865	1.000	3.125	0.040	TC594
350 WVDC; 400 VDC Surge						
5	30.48	0.139	0.625	1.125	0.032	TC60
8	19.05	0.193	0.625	1.375	0.032	TC61
8	33.20	0.089	0.512	0.827	0.032	TC61A
10	15.25	0.215	0.625	1.375	0.032	TC62
10	33.20	0.089	0.512	0.827	0.032	TC62A
12	12.71	0.239	0.750	1.125	0.040	TC63
16	9.54	0.302	0.750	1.375	0.040	TC64
20	7.63	0.337	0.750	1.375	0.040	TC65
20	15.10	0.175	0.512	1.181	0.032	TC65A
40	3.96	0.514	0.875	1.625	0.040	TC67
60	2.78	0.691	0.875	2.125	0.040	TC68
60	6.44	0.376	0.709	1.575	0.040	TC68A
100	1.35	1.093	0.875	2.625	0.040	TC69
100	3.32	0.555	0.866	1.575	0.040	TC69A
150	0.96	1.495	1.000	3.625	0.040	TC692

Cap μF	Max ESR Ohms 120Hz 25°C	Max Ripple Amps 120Hz 85°C	Size (Inches)			Catalog Number
			D Diameter	L Length	d	
450 WVDC; 525 VDC Surge						
2	86.91	0.082	0.625	1.125	0.032	TC695
2	151.00	0.030	0.315	0.787	0.032	TC695A
4	43.47	0.116	0.625	1.125	0.032	TC697
4	70.60	0.051	0.394	0.984	0.032	TC697A
5	35.86	0.144	0.750	1.125	0.040	TC70
5	70.60	0.051	0.394	0.984	0.032	TC70A
8	21.74	0.183	0.750	1.125	0.040	TC71
8	33.20	0.089	0.512	0.827	0.032	TC71A
10	17.39	0.243	0.875	1.375	0.040	TC72
10	33.20	0.089	0.512	0.827	0.032	TC72A
12	14.50	0.267	0.875	1.375	0.040	TC73
16	10.88	0.304	0.750	1.625	0.040	TC74
16	24.15	0.140	0.512	0.984	0.032	TC74A
20	8.71	0.371	0.875	1.625	0.040	TC75
20	15.10	0.175	0.512	1.181	0.032	TC75A
30	5.82	0.488	1.000	1.625	0.040	TC77
30	10.10	0.241	0.630	1.181	0.032	TC77A
40	4.36	0.653	1.000	2.125	0.040	TC78
40	8.58	0.280	0.630	1.299	0.032	TC78A
50	3.06	0.709	1.000	2.125	0.040	TC79
50	7.06	0.318	0.630	1.299	0.032	TC79A
60	2.55	0.855	1.000	2.625	0.040	TC795
80	2.19	1.068	1.000	3.125	0.040	TC80
80	3.32	0.555	0.866	1.575	0.040	TC80A
100	1.97	1.178	1.000	3.125	0.040	TC807
100	3.32	0.555	0.866	1.575	0.040	TC807A