

Type TC and TCN Tubular Electrolytic Capacitors

MALLORY

TC SINGLE SECTION (POLAR) and TCN SINGLE SECTION (NON-POLAR)

Mallory type TC and type TCN capacitors are single section metal tubulars with clear plastic insulating sleeves except those with the symbol (†) which have cardboard sleeving. The sizes listed below for TC and TCN capacitors without symbol (†) are bare unsleeved cans and you must add .015" to the diameter and .062" to the length to allow for plastic sleeving. Dimensions for capacitors with symbol (†) include the cardboard sleeve. Etched cathode construction is used in the manufacture of TC and TCN capacitors for maximum reliability. Type TC's and TCN's have 2" tinned leads except those shown with (■) which have 3" leads; TCD's and TCT's have 4" insulated leads. Temp. Range: -20° to +85°C. Tolerance: -10% to +100% up to 350 WVDC; -10%, +50% for 351 WVDC and up. For prices, refer to price sheet 316. Replaces TVA; WBR; BR.



TC SINGLE SECTION (POLAR)

Capacity (MFD)	Size D x L	Max. ESR (ohms) 120Hz + 25°C	Max. Ripple RMS (mA)@ 120Hz + 85°C	Max. DCL (μA) + 25°C	Catalog Number
3 WVDC; 4 VDC SURGE					
200	3/8 x 3/4	3.06	114	6.4	TC304
500	3/8 x 1 1/8	1.22	216	12.7	TC305
1,000	7/16 x 1 1/8	0.61	339	21.34	TC310
6 WVDC; 8 VDC SURGE					
250	3/8 x 3/4	2.19	134	15.1	TC602
500	3/8 x 1 1/8	0.99	228	25.4	TC605
1,000	7/16 x 1 1/8	0.54	359	42.68	TC610
2,000	5/8 x 1	0.28	572	71.8	TC615
12 WVDC; 15 VDC SURGE					
500	3/8 x 1 1/8	0.76	275	50.8	TC1205
1,000	1/2 x 1 1/4	0.33	513	85.4	TC1210
1,500	5/8 x 1 1/2	0.25	631	115.69	TC1215
2,000	5/8 x 1 3/8	0.18	796	143.55	TC1220
15 WVDC; 20 VDC SURGE					
200	3/8 x 3/4	1.638	156	31.91	TC1502
250	3/8 x 7/8	1.31	186	37.7	TC15025
500	3/8 x 1 1/8	0.66	324	63.4	TC1505
1,000	1/2 x 1 1/4	0.33	513	106.7	TC1501
2,000	5/8 x 1 3/8	0.164	855	179.4	TC1520
3,000	7/8 x 1 3/8	0.25	902	1300	TC1530
4,000	7/8 x 1 7/8	0.19	1110	1500	TC1540
5,000	7/8 x 2	0.11	1698	1600	TC1550
25 WVDC; 30 VDC SURGE					
10	1/4 x 5/8	13.30	42	5.6	TC22
25	1/4 x 5/8	6.96	57	11.2	TC26
50	5/16 x 1 1/16	3.53	92	18.8	TC29
100	3/8 x 3/4	1.74	151	31.6	TC2501
150	3/8 x 1	1.16	211	42.9	TC25015
250	7/16 x 1	0.70	294	62.9	TC25025
500	1/2 x 1 1/8	0.35	520	105.7	TC2505
1,000	5/8 x 1 3/8	0.17	832	177.8	TC2510
1,500	3/4 x 2 1/8	0.28	879	1200	TC2515
2,000	7/8 x 1 1/2	0.21	1045	1340	TC2520
3,000	7/8 x 2 1/8	0.14	1491	1640	TC2530
4,000	1 x 2 1/2	0.11	1851	1900	TC2540
5,000	1 x 2 5/8	0.08	2069	2120	TC2550
50 WVDC; 65 VDC SURGE					
1	1/4 x 5/8	133.0	13	2.0	TC31
2	1/4 x 5/8	66.0	18	3.4	TC302
5	1/4 x 5/8	26.6	29	6.7	TC30
10	1/4 x 5/8	18.53	35	11.3	TC32
25	5/16 x 1 1/16	8.03	61	22.36	TC36
50	3/8 x 3/4	3.91	101	37.6	TC39
100	3/8 x 1 1/8	1.85	176	63.3	TC3501
150	7/16 x 1 1/8	1.29	229	85.7	TC50015
250	1/2 x 1 3/8	0.74	356	125.7	TC50025
500	5/8 x 1 1/2	0.37	592	211.5	TC50050
1,000	7/8 x 2 1/8	0.22	1198	1340	TC50100
1,500	1 x 2 5/8	0.14	1580	1640	TC50150
2,000	1 x 2 3/4	0.10	1825	1900	TC50200
3,000	1 x 3 1/8	0.07	2595	2320	TC50300
5,000	1 3/8 x 3 3/8	0.03	4580	4000	TC50500

Capacity (MFD)	Size D x L	Max. ESR (ohms) 120Hz + 25°C	Max. Ripple RMS (mA)@ 120Hz + 85°C	Max. DCL (μA) + 25°C	Catalog Number
75 WVDC; 95 VDC SURGE					
20	3/8 x 3/4	6.77	77	28.4	TC75200
25	3/8 x 7/8	5.32	92	33.5	TC75250
50	7/16 x 1 1/8	2.66	175	56.4	TC75500
100	5/8 x 1 3/8	1.42	291	500	TC75101
250	3/4 x 1 3/8	0.63	519	800	TC75251
500	7/8 x 2 1/8	0.28	952	1200	TC75501
1,000	1 x 1 3/8	0.15	1221	1643	TC75102
2,000	1 x 2 3/8	0.07	2139	2323	TC75202
100 WVDC; 125 VDC SURGE					
1	1/4 x 5/8	133.0	13	4.0	TC10010
10	3/8 x 3/4	13.30	55	22.5	TC10100
20	3/8 x 1	6.65	88	37.8	TC10200
25	3/8 x 1 1/8	5.32	104	44.7	TC10250
50	7/16 x 1 1/4	2.66	175	75.2	TC10500
100	3/4 x 1 3/8	1.33	332	600	TC10101
150	3/4 x 1 3/8	0.89	438	700	TC10151
250	7/8 x 1 3/8	0.53	656	950	TC10251
500	1 x 2 1/8	0.27	1163	1340	TC10501
1,000	1 x 3 1/8	0.13	1946	1900	TC10102
1,500	1 x 3 3/8	0.08	2352	2323	TC10152
2,000	1 3/8 x 2 1/16	0.06	2796	2683	TC10202
150 WVDC; 175 VDC SURGE					
5	3/8 x 3/4	26.6	39	20.1	TC40
8	3/8 x 7/8	16.63	52	28.5	TC41
10	3/8 x 7/8	13.30	58	33.7	TC42
12	3/8 x 1	11.08	68	38.7	TC43
16	3/8 x 1 1/8	8.31	81	48.0	TC44
20	3/8 x 1 3/8	6.65	102	56.7	TC45
30	7/16 x 1 3/8	4.43	135	76.9	TC47
40	7/16 x 1 3/4	3.33	175	95.4	TC48
50	7/16 x 2	2.66	208	112.8	TC49
80	3/4 x 1 3/8	1.66	320	660	TC492
100	3/4 x 1 3/8	1.33	358	730	TC493
150	7/8 x 1 3/8	0.89	477	900	TC495
200	7/8 x 1 3/8	0.67	621	1040	TC496
300	1 x 2 1/8	0.44	819	1300	TC499
500	1 x 2 3/8	0.26	1165	1643	TC4990
1,000	1 3/8 x 2 1/16	0.13	1984	2323	TC4992
250 WVDC; 300 VDC SURGE					
1	1/2 x 1 1/8	133.0	24	100	TC56
5	1/2 x 1 1/8	26.6	54	200	TC50X
8	5/8 x 1 1/8	16.6	78	300	TC51
10	5/8 x 1 1/8	13.30	87	300	TC52
12	5/8 x 1 1/8	11.08	95	330	TC53
16	5/8 x 1 1/8	8.31	120	380	TC54
20	3/4 x 1 1/8	6.65	136	420	TC55
30	3/4 x 1 3/8	4.43	182	520	TC57
40	3/4 x 1 3/8	3.33	226	600	TC58
50	3/4 x 1 3/8	2.66	253	730	TC59
100	7/8 x 2 1/8	1.33	484	950	TC1265
160	1 x 2 3/8	0.83	658	1200	TC1266
225	1 x 3 1/8	.59	845	1420	TC1267
500	1 3/8 x 2 1/16	0.26	1403	2121	TC1269
300 WVDC; 350 VDC SURGE					
150	1 x 3 3/8	0.89	690	1300	TC593
200	1 x 3 3/8	0.67	797	1500	TC594

■ Indicates solid leads 3 inches long.

† Indicates cardboard sleeving (size includes sleeve)

Tubular Electrolytic Capacitors Type TC, TCD, TCN and TCT

TC SINGLE SECTION (POLAR)

Capacity (MFD)	Size D x L	Max. ESR (ohms) 120Hz + 25°C	Max. Ripple RMS (mA)@ 120Hz + 85°C	Max. DCL (μA) + 25°C	Catalog Number
350 WVDC; 400 VDC SURGE					
2	1/2 x 1 1/8	72.01	33	100	TC595
5	3/4 x 1 1/8	28.80	59	300	TC60
8	3/4 x 1 1/8	18.00	82	320	TC61
10	3/4 x 1 1/8	14.40	91	350	TC62
12	3/4 x 1 1/8	12.00	101	390	TC63
16	3/4 x 1 1/8	9.00	128	450	TC64
20	3/4 x 1 1/8	7.20	143	500	TC65
40	7/8 x 1 1/8	3.67	235	710	TC67
60	7/8 x 2 1/8	2.45	324	870	TC68
100	7/8 x 2 1/8	1.33	484	1100	TC69
150	1 x 3 1/8	0.10	711	1400	TC692
450 WVDC; 525 VDC SURGE					
1	1/2 x 1 1/8	133.0	24	200	TC6942
2	3/4 x 1 1/8	66.5	39	200	TC695
4	3/4 x 1 1/8	45.55	47	300	TC697
5	3/4 x 1 1/8	36.44	58	300	TC70
8	3/4 x 1 1/8	22.77	74	400	TC71
10	3/4 x 1 1/8	18.22	98	400	TC72

■ Indicates solid leads 3 inches long.

† Indicates cardboard sleeving (size includes sleeve)

Capacity (MFD)	Size D x L	Max. ESR (ohms) 120Hz + 25°C	Max. Ripple RMS (mA)@ 120Hz + 85°C	Max. DCL (μA) + 25°C	Catalog Number
450 WVDC; 525 VDC SURGE (Continued)					
12	7/8 x 1 1/8	15.18	107	400	TC73
16	3/4 x 1 1/8	11.39	122	510	TC74
20	3/4 x 1 1/8	9.11	149	570	TC75
30	1 x 1 1/8	6.07	197	700	TC77
40	1 x 2 1/8	4.55	255	800	TC78
450 WVDC; 525 VDC SURGE					
50	1 x 2 1/8	3.64	286	900	TC79
60	1 x 2 1/8	3.04	344	1000	TC795
80	1 x 3 1/8	2.28	431	1140	TC80
100	1 1/8 x 2 1/8	1.82	547	1300	■ TC805
100	1 x 2 1/8	1.61	473	1300	TC807
160	1 1/8 x 3 1/8	1.14	639	1600	■ TC808
500 WVDC; 550 VDC SURGE					
10	1 1/16 x 3	13.6	130	900	† TC82
600 WVDC; 625 VDC SURGE					
4	1 1/16 x 2 1/8	60	60	600	† TC90
10	1 1/16 x 2 1/8	12	140	1000	† TC92
20	1 1/16 x 3	6.65	242	1300	■ TC96

TCN SINGLE SECTION (NON-POLAR)

Capacity (MFD)	Size D x L	Max. ESR (ohms) 120Hz + 25°C	Max. Ripple RMS (mA)@ 120Hz + 85°C	Max. DCL (μA) + 25°C	Catalog Number
10 WVNP					
5	1/4 x 5/8	57.7	18	2.3	TCN105
8	1/4 x 5/8	36.06	23	3.23	TCN108
25	3/8 x 3/4	11.54	58	7.60	TCN1025
500	1/2 x 1 1/8	.57	368	71.90	TCN412
15 WVNP					
500	1/2 x 1 1/4	.40	462	107.85	TCN1550
1,000	3/8 x 1 3/4	.20	770	181	TCN415
25 WVNP					
16	3/16 x 1 1/16	8.31	60	13.60	TCN2516
100	3/8 x 1 1/4	1.33	207	53.76	TCN425
50 WVNP					
1	1/4 x 5/8	199.5	11	3.40	TCN501
2	1/4 x 5/8	99.75	15	5.72	TCN502
3	1/4 x 5/8	66.5	19	7.75	TCN503
4	3/8 x 5/8	49.88	26	9.62	TCN504
5	1/4 x 1 1/16	40	24	11.4	TCN505
10	3/16 x 3/4	19.95	40	19.12	TCN5010
100	1/16 x 1 1/2	1.33	257	107.52	TCN5099

Capacity (MFD)	Size D x L	Max. ESR (ohms) 120Hz + 25°C	Max. Ripple RMS (mA)@ 120Hz + 85°C	Max. DCL (μA) + 25°C	Catalog Number
150 WVNP					
4	5/8 x 1 1/16	33.25	54	330	TCN510
8	5/8 x 1 1/16	16.63	76	470	TCN158
12	5/8 x 1 1/16	11.08	110	580	TCN1512
40	7/8 x 1 1/16	3.33	242	1050	TCN1540
50	7/8 x 2 1/16	2.66	306	1180	TCN1551
200 WVNP					
4	1 x 1 1/16	66	58	380	† TCN2550
250 WVNP					
4	5/8 x 1 1/16	49.88	44	430	TCN254
350 WVNP					
20	1 x 2 1/16	6.65	235	1140	TCN3520
450 WVNP					
10	1 x 2 1/16	19.95	120	910	TCN511

† Indicates cardboard sleeving. (size includes sleeve)

TCD DUAL COMMON NEGATIVE

Cap. (MFD)	Size D x L	Catalog Number
150-150 WVDC; 175 VDC SURGE		
20-20	1 1/16 x 1 1/8	† TCD45
40-40	1 1/16 x 2 1/8	† TCD48
50-30	1 1/16 x 1 1/8	† TCD497
50-50	1 1/16 x 2 1/8	† TCD49
80-40	1 1/16 x 2 1/8	† TCD4975
80-50	1 1/16 x 2 1/8	† TCD498
100-100	1 1/16 x 4 1/8	† TCD2155

† Indicates cardboard sleeve. (size includes sleeve)

Cap. (MFD)	Size D x L	Catalog Number
250-250 WVDC; 300 VDC SURGE		
20-20	1 1/16 x 2 1/8	† TCD55
350-350 WVDC; 400 VDC SURGE		
20-20	1 1/16 x 2 1/8	† TCD65
450-450 WVDC; 525 VDC SURGE		
8-8	1 1/16 x 2 1/8	† TCD71
20-20	1 1/16 x 3 1/4	† TCD75
40-40	1 1/16 x 4 1/8	† TCD78

TCT TRIPLE COMMON NEGATIVE

150-150-150 WVDC; 175 VDC SURGE		
40-40-20	1 1/16 x 2 3/8	† TCT3116
40-40-40	1 1/16 x 2 3/8	† TCT3115
50-30-20	1 1/16 x 2 3/8	† TCT3107
60-50-20	1 1/16 x 2 3/8	† TCT3119
80-40-20	1 1/16 x 2 3/8	† TCT3117
80-50-50	1 1/16 x 4	† TCT3118
80-80-20	1 1/16 x 3	† TCT3120