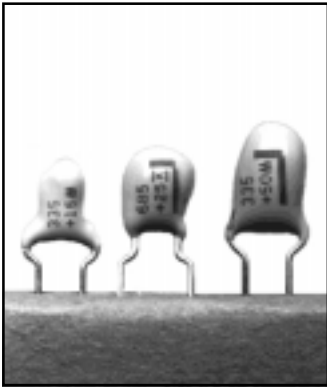


Type TDC Solid Tantalum Capacitors

MALLORY



- Tough Plastic Case
- UL94V0 Flammability Rating
- Laser Marking Clarity and Permanence
- Low Cost
- Low DCL
- Low ESR & Impedance
- Temperature Stable
- Long Shelf Life
- High Shock & Vibration
- Optional Reel Packaging Available

GENERAL SPECIFICATIONS

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

Voltage Range:
6 to 50 WVDC @ 85°C

Reverse Voltage (Non-continuous):
15% of rated voltage @ 25°C
5% of rated voltage @ 85°C
1% of rated voltage @ 125°C

Capacitance Range:
.10 μ F to 330 μ F

Capacitance Tolerance:
 $\pm 10\%$, $\pm 20\%$
($\pm 5\%$ by special order)

Capacitance Change From
Initial +25°C Value:
-10% @ -55°C
+10% @ +85°C
+12% @ +125°C

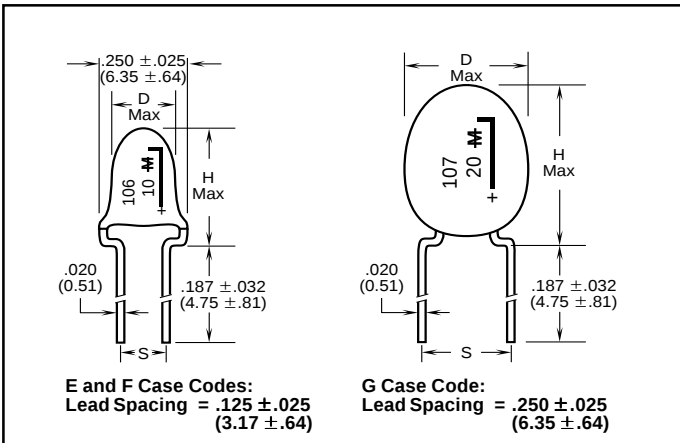
DC Leakage:
At +25°C - See Table Limit
At +85°C - 10 x Table Limit
At +125°C - 12.5 x Table Limit

Dimensions - Inches (Millimeters)

Case Code	D (Max.)	H (Max.)	Leads	
			S	Code
E	.175 (4.45)	.350 (8.89)	.125 (3.17) (Standard) .250 (6.35) (Special)	N W
F	.250 (6.35)	.500 (12.7)	.125 (3.17) (Standard) .250 (6.35) (Special)	N W
G	.350 (8.89)	.650 (16.51)	.250 (6.35) (Standard)	W

Case Code	Quantity
E	1,000
F	1,000
G	1,000

Catalog Numbers listed below reflect dimensions and lead forms as shown in the outline drawing. Other lead spacing and lead lengths of .500 (12.7) minimum are available by special order.



Cap (μ F)	Case Code	Lead Spacing S	Max DCL @ +25°C (μ A)	Max D.F. % @ +25°C 120 Hz	Catalog Number
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6 WVDC; 8 VDC Surge @ 85°C 4 WVDC; 5 VDC Surge @ 125°C

3.3	E	.125	0.5	5	TDC335*006NSE
3.9	E	.125	0.5	5	TDC395*006NSE
4.7	E	.125	0.5	5	TDC475*006NSE
5.6	E	.125	0.5	5	TDC565*006NSE
6.8	E	.125	0.5	5	TDC685*006NSE
8.2	E	.125	0.5	6	TDC825*006NSE
10	E	.125	0.5	6	TDC106*006NSE
12	E	.125	0.6	6	TDC126*006NSE
15	F	.125	0.7	6	TDC156*006NSF
18	F	.125	0.9	6	TDC186*006NSF
22	F	.125	1.1	6	TDC226*006NSF
27	F	.125	1.3	6	TDC276*006NSF
33	F	.125	1.6	6	TDC336*006NSF
39	F	.125	1.9	6	TDC396*006NSF
47	F	.125	2.3	6	TDC476*006NSF
56	F	.125	2.7	6	TDC566*006NSF
68	F	.125	3.3	6	TDC686*006NSF
82	F	.125	3.9	8	TDC826*006NSF
100	F	.125	4.8	8	TDC107*006NSF
120	G	.250	5.8	8	TDC127*006WSG
150	G	.250	7.2	8	TDC157*006WSG
180	G	.250	8.6	8	TDC187*006WSG
220	G	.250	10.0	8	TDC227*006WSG
270	G	.250	10.0	8	TDC277*006WSG
330	G	.250	10.0	8	TDC337*006WSG

10 WVDC; 13 VDC Surge @ 85°C 7 WVDC; 9 VDC Surge @ 125°C

2.2	E	.125	0.5	5	TDC225*010NSE
2.7	E	.125	0.5	5	TDC275*010NSE
3.3	E	.125	0.5	5	TDC335*010NSE

Cap (μ F)	Case Code	Lead Spacing S	Max DCL @ +25°C (μ A)	Max D.F. % @ +25°C 120 Hz	Catalog Number
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10 WVDC; 13 VDC Surge @ 85°C 7 WVDC; 9 VDC Surge @ 125°C

3.9	E	.125	0.5	5	TDC395*010NSE
4.7	E	.125	0.5	5	TDC475*010NSE
5.6	E	.125	0.5	5	TDC565*010NSE
6.8	E	.125	0.5	5	TDC685*010NSE
8.2	E	.125	0.7	6	TDC825*010NSE
10	F	.125	0.8	6	TDC106*010NSF
12	F	.125	1.0	6	TDC126*010NSF
15	F	.125	1.2	6	TDC156*010NSF
18	F	.125	1.4	6	TDC186*010NSF
22	F	.125	1.8	6	TDC226*010NSF
27	F	.125	2.2	6	TDC276*010NSF
33	F	.125	2.6	6	TDC336*010NSF
39	F	.125	3.1	6	TDC396*010NSF
47	F	.125	3.8	6	TDC476*010NSF
56	F	.125	4.5	6	TDC566*010NSF
68	F	.125	5.4	6	TDC686*010NSF
82	G	.250	6.6	8	TDC826*010WSG
100	G	.250	8.0	8	TDC107*010WSG
120	G	.250	9.6	8	TDC127*010WSG
150	G	.250	10.0	8	TDC157*010WSG
180	G	.250	10.0	8	TDC187*010WSG
220	G	.250	10.0	8	TDC227*010WSG

15 WVDC; 20 VDC Surge @ 85°C 10 WVDC; 12 VDC Surge @ 125°C

1.5	E	.125	0.5	5	TDC155*015NSE
1.8	E	.125	0.5	5	TDC185*015NSE
2.2	E	.125	0.5	5	TDC225*015NSE
2.7	E	.125	0.5	5	TDC275*015NSE
3.3	E	.125	0.5	5	TDC335*015NSE
3.9	E	.125	0.5	5	TDC395*015NSE

* Indicate capacitance tolerance: K = $\pm 10\%$, M = $\pm 20\%$, (J = $\pm 5\%$, Special Order)

NACC reserves the right to substitute a tighter tolerance, higher voltage capacitor within the same case size.

Type TDC Solid Tantalum Capacitors

MALLORY

Cap (μ F)	Case Code	Lead Spacing S	Max DCL @ +25°C (μ A)	Max D.F. % @+25°C 120 Hz	Catalog Number
15 WVDC; 20 VDC Surge @ 85°C 10 WVDC; 12 VDC Surge @ 125°C					
4.7	E	.125	0.6	5	TDC475*015NSE
5.6	E	.125	0.7	5	TDC565*015NSE
6.8	E	.125	0.9	5	TDC685*015NSE
8.2	E	.125	1.0	6	TDC825*015NSE
10	F	.125	1.3	6	TDC106*015NSF
12	F	.125	1.5	6	TDC126*015NSF
15	F	.125	1.8	6	TDC156*015NSF
18	F	.125	2.2	6	TDC186*015NSF
22	F	.125	2.6	6	TDC226*015NSF
27	F	.125	3.2	6	TDC276*015NSF
33	F	.125	4.0	6	TDC336*015NSF
39	G	.250	4.7	6	TDC396*015WSG
47	G	.250	5.6	6	TDC476*015WSG
56	G	.250	6.8	6	TDC566*015WSG
68	G	.250	8.2	6	TDC686*015WSG
82	G	.250	9.8	8	TDC826*015WSG
100	G	.250	10.0	8	TDC107*015WSG
120	G	.250	10.0	8	TDC127*015WSG
150	G	.250	10.0	8	TDC157*015WSG

20 WVDC; 26 VDC Surge @ 85°C 13 WVDC; 16 VDC Surge @ 125°C					
1.0	E	.125	0.5	3	TDC105*020NSE
1.2	E	.125	0.5	5	TDC125*020NSE
1.5	E	.125	0.5	5	TDC155*020NSE
1.8	E	.125	0.5	5	TDC185*020NSE
2.2	E	.125	0.5	5	TDC225*020NSE
2.7	E	.125	0.5	5	TDC275*020NSE
3.3	E	.125	0.5	5	TDC335*020NSE
3.9	E	.125	0.6	5	TDC395*020NSE
4.7	E	.125	0.8	5	TDC475*020NSE
5.6	F	.125	0.9	5	TDC565*020NSF
6.8	F	.125	1.1	5	TDC685*020NSF
8.2	F	.125	1.3	6	TDC825*020NSF
10	F	.125	1.6	6	TDC106*020NSF
12	F	.125	1.9	6	TDC126*020NSF
15	F	.125	2.4	6	TDC156*020NSF
18	F	.125	2.9	6	TDC186*020NSF
22	F	.125	3.5	6	TDC226*020NSF
33	G	.250	5.3	6	TDC336*020WSG
39	G	.250	6.2	6	TDC396*020WSG
47	G	.250	7.5	6	TDC476*020WSG
56	G	.250	9.0	6	TDC566*020WSG
68	G	.250	10.0	6	TDC686*020WSG
82	G	.250	10.0	8	TDC826*020WSG
100	G	.250	10.0	8	TDC107*020WSG

25 WVDC; 32 VDC Surge @ 85°C 17 WVDC; 22 VDC Surge @ 125°C					
1.0	E	.125	0.5	3	TDC105*025NSE
1.2	E	.125	0.5	5	TDC125*025NSE
1.5	E	.125	0.5	5	TDC155*025NSE
1.8	E	.125	0.5	5	TDC185*025NSE
2.2	E	.125	0.5	5	TDC225*025NSE
2.7	E	.125	0.5	5	TDC275*025NSE
3.3	E	.125	0.7	5	TDC335*025NSE
3.9	E	.125	0.8	5	TDC395*025NSE
4.7	F	.125	0.9	5	TDC475*025NSF
5.6	F	.125	1.1	5	TDC565*025NSF
6.8	F	.125	1.4	5	TDC685*025NSF
8.2	F	.125	1.6	6	TDC825*025NSF
10	F	.125	2.0	6	TDC106*025NSF
12	F	.125	2.4	6	TDC126*025NSF
15	F	.125	3.0	6	TDC156*025NSF
18	F	.125	3.6	6	TDC186*025NSF
22	F	.125	4.4	6	TDC226*025NSF
27	G	.250	5.4	6	TDC276*025WSG
33	G	.250	6.6	6	TDC336*025WSG
39	G	.250	7.8	6	TDC396*025WSG
47	G	.250	9.4	6	TDC476*025WSG

25 WVDC; 32 VDC Surge @ 85°C 17 WVDC; 22 VDC Surge @ 125°C					
56	G	.250	10.0	6	TDC566*025WSG
68	G	.250	10.0	6	TDC686*025WSG

35 WVDC; 46 VDC Surge @ 85°C 23 WVDC; 28 VDC Surge @ 125°C					
0.10	E	.125	0.5	3	TDC104*035NSE
0.12	E	.125	0.5	3	TDC124*035NSE
0.15	E	.125	0.5	3	TDC154*035NSE
0.18	E	.125	0.5	3	TDC184*035NSE
0.22	E	.125	0.5	3	TDC224*035NSE
0.27	E	.125	0.5	3	TDC274*035NSE
0.33	E	.125	0.5	3	TDC334*035NSE
0.39	E	.125	0.5	3	TDC394*035NSE
0.47	E	.125	0.5	3	TDC474*035NSE
0.56	E	.125	0.5	3	TDC564*035NSE
0.68	E	.125	0.5	3	TDC684*035NSE
0.82	E	.125	0.5	3	TDC824*035NSE
1.0	E	.125	0.5	3	TDC105*035NSE
1.2	E	.125	0.5	5	TDC125*035NSE
1.5	E	.125	0.5	5	TDC155*035NSE
1.8	E	.125	0.5	5	TDC185*035NSE
2.2	E	.125	0.6	5	TDC225*035NSE
2.7	F	.125	0.7	5	TDC275*035NSF
3.3	F	.125	0.9	5	TDC335*035NSF
3.9	F	.125	1.0	5	TDC395*035NSF
4.7	F	.125	1.3	5	TDC475*035NSF
5.6	F	.125	1.6	5	TDC565*035NSF
6.8	F	.125	1.9	5	TDC685*035NSF
8.2	F	.125	2.3	6	TDC825*035NSF
10	F	.125	2.8	6	TDC106*035NSF
12	G	.250	3.4	6	TDC126*035WSG
15	G	.250	4.2	6	TDC156*035WSG
18	G	.250	5.0	6	TDC186*035WSG
22	G	.250	6.2	6	TDC226*035WSG
27	G	.250	7.6	6	TDC276*035WSG
33	G	.250	9.2	6	TDC336*035WSG
39	G	.250	10.0	6	TDC396*035WSG
47	G	.250	10.0	6	TDC476*035WSG

50 WVDC; 65 VDC Surge @ 85°C 33 WVDC; 40 VDC Surge @ 125°C					
0.10	E	.125	0.5	3	TDC104*050NSE
0.12	E	.125	0.5	3	TDC124*050NSE
0.15	E	.125	0.5	3	TDC154*050NSE
0.18	E	.125	0.5	3	TDC184*050NSE
0.22	E	.125	0.5	3	TDC224*050NSE
0.27	E	.125	0.5	3	TDC274*050NSE
0.33	E	.125	0.5	3	TDC334*050NSE
0.39	E	.125	0.5	3	TDC394*050NSE
0.47	E	.125	0.5	3	TDC474*050NSE
0.56	E	.125	0.5	3	TDC564*050NSE
0.68	E	.125	0.5	3	TDC684*050NSE
0.82	E	.125	0.5	3	TDC824*050NSE
1.0	E	.125	0.5	3	TDC105*050NSE
1.2	E	.125	0.5	5	TDC125*050NSE
1.5	E	.125	0.6	5	TDC155*050NSE
1.8	F	.125	0.7	5	TDC185*050NSF
2.2	F	.125	0.9	5	TDC225*050NSF
2.7	F	.125	1.1	5	TDC275*050NSF
3.3	F	.125	1.3	5	TDC335*050NSF
3.9	F	.125	1.6	5	TDC395*050NSF
4.7	F	.125	1.9	5	TDC475*050NSF
5.6	F	.125	2.2	5	TDC565*050NSF
6.8	G	.250	2.7	5	TDC685*050WSG
8.2	G	.250	3.3	6	TDC825*050WSG
10	G	.250	4.0	6	TDC106*050WSG
12	G	.250	4.8	6	TDC126*050WSG
15	G	.250	6.0	6	TDC156*050WSG
18	G	.250	7.2	6	TDC186*050WSG
22	G	.250	8.8	6	TDC226*050WSG

* Indicate capacitance tolerance: K = $\pm 10\%$, M = $\pm 20\%$, (J = $\pm 5\%$, Special Order)

NACC reserves the right to substitute a tighter tolerance, higher voltage capacitor within the same case size.