

Dipped, Radial Leaded, Solid Tantalum Capacitors



As a low cost alternative to molded solid tantalum capacitors, the Type TDC, constructed in a tough, radial dipped flame retardant plastic case, assures the user that it is a top performer with such attributes as low DCL, low ESR, low impedance and a great value with low in-place cost. The Type TDC is high shock and vibration resistant and is available in bulk or on radial tape and reel.

Highlights

- ◆ Tough plastic case
- ◆ Low DCL
- ◆ Low ESR and impedance
- ◆ Low cost
- ◆ Temperature stable
- ◆ UL94VO flammability rating
- ◆ Resistant to shock and vibration

Specifications

Capacitance Range: 0.10 μ F to 330 μ F
Voltage Range: 6 WVdc to 50 WVdc at 85 °C
Tolerance: \pm 10%, \pm 20%
Operating Temperature Range: -55 °C to +125 °C (with proper derating)

DC Leakage: +25 °C - See ratings limit
+85 °C - 10 x ratings limit
+125 °C - 12.5 x ratings limit

Capacitance Change Maximum: -10% @ -55 °C
+10% @ +85 °C
+12% @ +125 °C

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

Reel Packaging:

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



Complies with the EU Directive 2002/95/EC requirement restricting the use of Lead (Pb), Mercury (Hg), Cadmium (Cd), Hexavalent chromium (Cr(VI)), PolyBrominated Biphenyls (PBB) and PolyBrominated Diphenyl Ethers (PBDE).

Type TDC Solid Tantalum Capacitors

Capacitor Outline Drawing



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

E and F Case Codes:
Lead Spacing = $.125 \pm .025$
(3.17 ± .64)

G Case Code:
Lead Spacing = $.250 \pm .025$
(6.34 ± .64)

Ratings

Cap (µF)	Catalog Part Number	Case Code	Lead Spacing (S)	Max. DCL @ +25 °C (µA)	Max. DF @ +25 °C 120 Hz (%)	Cap (µF)	Catalog Part Number	Case Code	Lead Spacing (S)	Max. DCL @ +25 °C (µA)	Max. DF @ +25 °C 120 Hz (%)
6 WVdc; 8 Vdc Surge @ 85 °C						10 WVdc; 13 Vdc Surge @ 85 °C					
4 WVdc; 5 Vdc Surge @ 125 °C						7 WVdc; 9 Vdc Surge @ 125 °C					
3.3	TDC335*006NSE-F	E	0.125	0.5	5	2.2	TDC225*010NSE-F	E	0.125	0.5	5
3.9	TDC395*006NSE-F	E	0.125	0.5	5	2.7	TDC275*010NSE-F	E	0.125	0.5	5
4.7	TDC475*006NSE-F	E	0.125	0.5	5	3.3	TDC335*010NSE-F	E	0.125	0.5	5
5.6	TDC565*006NSE-F	E	0.125	0.5	5	3.9	TDC395*010NSE-F	E	0.125	0.5	5
6.8	TDC685*006NSE-F	E	0.125	0.5	5	4.7	TDC475*010NSE-F	E	0.125	0.5	5
8.2	TDC825*006NSE-F	E	0.125	0.5	6	5.6	TDC565*010NSE-F	E	0.125	0.5	5
10	TDC106*006NSE-F	E	0.125	0.5	6	6.8	TDC685*010NSE-F	E	0.125	0.5	5
12	TDC126*006NSE-F	E	0.125	0.6	6	8.2	TDC825*010NSE-F	E	0.125	0.7	6
15	TDC156*006NSF-F	F	0.125	0.7	6	10	TDC106*010NSF-F	F	0.125	0.8	6
18	TDC186*006NSF-F	F	0.125	0.9	6	12	TDC126*010NSF-F	F	0.125	1.0	6
22	TDC226*006NSF-F	F	0.125	1.1	6	15	TDC156*010NSF-F	F	0.125	1.2	6
27	TDC276*006NSF-F	F	0.125	1.3	6	18	TDC186*010NSF-F	F	0.125	1.4	6
33	TDC336*006NSF-F	F	0.125	1.6	6	22	TDC226*010NSF-F	F	0.125	1.8	6
39	TDC396*006NSF-F	F	0.125	1.9	6	27	TDC276*010NSF-F	F	0.125	2.2	6
47	TDC476*006NSF-F	F	0.125	2.3	6	33	TDC336*010NSF-F	F	0.125	2.6	6
56	TDC566*006NSF-F	F	0.125	2.7	6	39	TDC396*010NSF-F	F	0.125	3.1	6
68	TDC686*006NSF-F	F	0.125	3.3	6	47	TDC476*010NSF-F	F	0.125	3.8	6
82	TDC826*006NSF-F	F	0.125	3.9	8	56	TDC566*010NSF-F	F	0.125	4.5	6
100	TDC107*006NSF-F	F	0.125	4.8	8	68	TDC686*010NSF-F	F	0.125	5.4	6
120	TDC127*006WSG-F	G	0.25	5.8	8	82	TDC826*010WSG-F	G	0.25	6.6	8
150	TDC157*006WSG-F	G	0.25	7.2	8	100	TDC107*010WSG-F	G	0.25	8.0	8
180	TDC187*006WSG-F	G	0.25	8.6	8	120	TDC127*010WSG-F	G	0.25	9.6	8
220	TDC227*006WSG-F	G	0.25	10	8	150	TDC157*010WSG-F	G	0.25	10.0	8
270	TDC277*006WSG-F	G	0.25	10	8	180	TDC187*010WSG-F	G	0.25	10.0	8
330	TDC337*006WSG-F	G	0.25	10	8	220	TDC227*010WSG-F	G	0.25	10.0	8

* Indicates capacitance tolerance: K = ±10%, M = ±20%, (J = ±5%, Special Order)

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

Type TDC Solid Tantalum Capacitors

Ratings

Cap (μ F)	Catalog Part Number	Case Code	Lead Spacing (S)	Max. DCL @ +25 °C (μ A)	Max. DF @ +25 °C 120 Hz (%)	Cap (μ F)	Catalog Part Number	Case Code	Lead Spacing (S)	Max. DCL @ +25 °C (μ A)	Max. DF @ +25 °C 120 Hz (%)
16 WVdc; 20 Vdc Surge @ 85 °C						20 WVdc; 26 Vdc Surge @ 85 °C					
10 WVdc; 12 Vdc Surge @ 125 °C						13 WVdc; 16 Vdc Surge @ 125 °C					
1.5	TDC155*016NSE-F	E	0.125	0.5	5	8.2	TDC825*020NSF-F	F	0.125	1.3	6
1.8	TDC185*016NSE-F	E	0.125	0.5	5	10	TDC106*020NSF-F	F	0.125	1.6	6
2.2	TDC225*016NSE-F	E	0.125	0.5	5	12	TDC126*020NSF-F	F	0.125	1.9	6
2.7	TDC275*016NSE-F	E	0.125	0.5	5	15	TDC156*020NSF-F	F	0.125	2.4	6
3.3	TDC335*016NSE-F	E	0.125	0.5	5	18	TDC186*020NSF-F	F	0.125	2.9	6
3.9	TDC395*016NSE-F	E	0.125	0.5	5	22	TDC226*020NSF-F	F	0.125	3.5	6
4.7	TDC475*016NSE-F	E	0.125	0.6	5	33	TDC336*020WSG-F	G	0.25	5.3	6
5.6	TDC565*016NSE-F	E	0.125	0.7	5	39	TDC396*020WSG-F	G	0.25	6.2	6
6.8	TDC685*016NSE-F	E	0.125	0.9	5	47	TDC476*020WSG-F	G	0.25	7.5	6
8.2	TDC825*016NSE-F	E	0.125	1.0	6	56	TDC566*020WSG-F	G	0.25	9.0	6
10	TDC106*016NSF-F	F	0.125	1.3	6	68	TDC686*020WSG-F	G	0.25	10.0	6
12	TDC126*016NSF-F	F	0.125	1.5	6	82	TDC826*020WSG-F	G	0.25	10.0	8
15	TDC156*016NSF-F	F	0.125	1.8	6	100	TDC107*020WSG-F	G	0.25	10.0	8
18	TDC186*016NSF-F	F	0.125	2.2	6	25 WVdc; 32 Vdc Surge @ 85 °C					
22	TDC226*016NSF-F	F	0.125	2.6	6	17 WVdc; 22 Vdc Surge @ 125 °C					
27	TDC276*016NSF-F	F	0.125	3.2	6	1.0	TDC105*025NSE-F	E	0.125	0.50	3
33	TDC336*016NSF-F	F	0.125	4.0	6	1.2	TDC125*025NSE-F	E	0.125	0.50	5
39	TDC396*016WSG-F	G	0.25	4.7	6	1.5	TDC155*025NSE-F	E	0.125	0.50	5
47	TDC476*016WSG-F	G	0.25	5.6	6	1.8	TDC185*025NSE-F	E	0.125	0.50	5
56	TDC566*016WSG-F	G	0.25	6.8	6	2.2	TDC225*025NSE-F	E	0.125	0.50	5
68	TDC686*016WSG-F	G	0.25	8.2	6	2.7	TDC275*025NSE-F	E	0.125	0.50	5
82	TDC826*016WSG-F	G	0.25	9.8	8	3.3	TDC335*025NSE-F	E	0.125	0.70	5
100	TDC107*016WSG-F	G	0.25	10.0	8	3.9	TDC395*025NSE-F	E	0.125	0.80	5
120	TDC127*016WSG-F	G	0.25	10.0	8	4.7	TDC475*025NSF-F	F	0.125	0.90	5
150	TDC157*016WSG-F	G	0.25	10.0	8	5.6	TDC565*025NSF-F	F	0.125	1.10	5
20 WVdc; 26 Vdc Surge @ 85 °C						6.8	TDC685*025NSF-F	F	0.125	1.40	5
13 WVdc; 16 Vdc Surge @ 125 °C						8.2	TDC825*025NSF-F	F	0.125	1.60	6
1.0	TDC105*020NSE-F	E	0.125	0.5	3	10	TDC106*025NSF--F	F	0.125	2.0	6
1.2	TDC125*020NSE-F	E	0.125	0.5	5	12	TDC126*025NSF-F	F	0.125	2.4	6
1.5	TDC155*020NSE-F	E	0.125	0.5	5	15	TDC156*025NSF-F	F	0.125	3.0	6
1.8	TDC185*020NSE-F	E	0.125	0.5	5	18	TDC186*025NSF-F	F	0.125	3.6	6
2.2	TDC225*020NSE-F	E	0.125	0.5	5	22	TDC226*025NSF-F	F	0.125	4.4	6
2.7	TDC275*020NSE-F	E	0.125	0.5	5	27	TDC276*025WSG-F	G	0.250	5.4	6
3.3	TDC335*020NSE-F	E	0.125	0.5	5	33	TDC336*025WSG-F	G	0.250	6.6	6
3.9	TDC395*020NSE-F	E	0.125	0.6	5	39	TDC396*025WSG-F	G	0.250	7.8	6
4.7	TDC475*020NSE-F	E	0.125	0.8	5	47	TDC476*025WSG-F	G	0.250	9.4	6
5.6	TDC565*020NSF-F	F	0.125	0.9	5	56	TDC566*025WSG-F	G	0.250	10.0	6
6.8	TDC685*020NSF-F	F	0.125	1.1	5	68	TDC686*025WSG-F	G	0.250	10.0	6

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

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

Type TDC Solid Tantalum Capacitors

Ratings

Cap (μ F)	Catalog Part Number	Case Code	Lead Spacing (S)	Max. DCL @ +25 °C (μ A)	Max. DF @ +25 °C 120 Hz (%)	Cap (μ F)	Catalog Part Number	Case Code	Lead Spacing (S)	Max. DCL @ +25 °C (μ A)	Max. DF @ +25 °C 120 Hz (%)
35 WVdc; 46 Vdc Surge @ 85 °C 23 WVdc; 28 Vdc Surge @ 125 °C						50 WVdc; 65 Vdc Surge @ 85 °C 33 WVdc; 40 Vdc Surge @ 125 °C					
0.10	TDC104*035NSE-F	E	0.125	0.5	3	.10	TDC104*050NSE-F	E	0.125	0.5	3
0.12	TDC124*035NSE-F	E	0.125	0.5	3	.12	TDC124*050NSE-F	E	0.125	0.5	3
0.15	TDC154*035NSE-F	E	0.125	0.5	3	.15	TDC154*050NSE-F	E	0.125	0.5	3
0.18	TDC184*035NSE-F	E	0.125	0.5	3	.18	TDC184*050NSE-F	E	0.125	0.5	3
0.22	TDC224*035NSE-F	E	0.125	0.5	3	.22	TDC224*050NSE-F	E	0.125	0.5	3
0.27	TDC274*035NSE-F	E	0.125	0.5	3	.27	TDC274*050NSE-F	E	0.125	0.5	3
0.33	TDC334*035NSE-F	E	0.125	0.5	3	.33	TDC334*050NSE-F	E	0.125	0.5	3
0.39	TDC394*035NSE-F	E	0.125	0.5	3	.39	TDC394*050NSE-F	E	0.125	0.5	3
0.47	TDC474*035NSE-F	E	0.125	0.5	3	.47	TDC474*050NSE-F	E	0.125	0.5	3
0.56	TDC564*035NSE-F	E	0.125	0.5	3	.56	TDC564*050NSE-F	E	0.125	0.5	3
0.68	TDC684*035NSE-F	E	0.125	0.5	3	.68	TDC684*050NSE-F	E	0.125	0.5	3
0.82	TDC824*035NSE-F	E	0.125	0.5	3	.82	TDC824*050NSE-F	E	0.125	0.5	3
1.0	TDC105*035NSE-F	E	0.125	0.5	3	1.0	TDC105*050NSE-F	E	0.125	0.5	3
1.2	TDC125*035NSE-F	E	0.125	0.5	5	1.2	TDC125*050NSE-F	E	0.125	0.5	5
1.5	TDC155*035NSE-F	E	0.125	0.5	5	1.5	TDC155*050NSE-F	E	0.125	0.6	5
1.8	TDC185*035NSE--F	E	0.125	0.5	5	1.8	TDC185*050NSF-F	F	0.125	0.7	5
2.2	TDC225*035NSE-F	E	0.125	0.6	5	2.2	TDC225*050NSF-F	F	0.125	0.9	5
2.7	TDC275*035NSF-F	F	0.125	0.7	5	2.7	TDC275*050NSF-F	F	0.125	1.1	5
3.3	TDC335*035NSF-F	F	0.125	0.9	5	3.3	TDC335*050NSF-F	F	0.125	1.3	5
3.9	TDC339*035NSF-F	F	0.125	1.0	5	3.9	TDC395*050NSF-F	F	0.125	1.6	5
4.7	TDC475*035NSF-F	F	0.125	1.3	5	4.7	TDC475*050NSF-F	F	0.125	1.9	5
5.6	TDC565*035NSF-F	F	0.125	1.6	5	5.6	TDC565*050NSF-F	F	0.125	2.2	5
6.8	TDC685*035NSF-F	F	0.125	1.9	5	6.8	TDC685*050WSG-F	G	0.25	2.7	5
8.2	TDC825*035NSF-F	F	0.125	2.3	6	8.2	TDC825*050WSG-F	G	0.25	3.3	6
10	TDC106*035NSF-F	F	0.125	2.8	6	10	TDC106*050WSG-F	G	0.25	4.0	6
12	TDC126*035WSG-F	G	0.25	3.4	6	12	TDC126*050WSG-F	G	0.25	4.8	6
15	TDC156*035WSG-F	G	0.25	4.2	6	15	TDC156*050WSG-F	G	0.25	6.0	6
18	TDC186*035WSG-F	G	0.25	5.0	6	18	TDC186*050WSG-F	G	0.25	7.2	6
22	TDC226*035WSG-F	G	0.25	6.2	6	22	TDC226*050WSG-F	G	0.25	8.8	6
27	TDC276*035WSG-F	G	0.25	7.6	6						
33	TDC336*035WSG-F	G	0.25	9.2	6						
39	TDC396*035WSG-F	G	0.25	10	6						
47	TDC476*035WSG-F	G	0.25	10	6						

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

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Part Numbering System

TDC	107	K	016	W	S	G	-F
Series	Capacitance	Tolerance	Voltage	Lead Spacing	Lead Length	Case Code	RoHS Compliant
TDC	394 = 0.39 μ F	J = \pm 5%	006 = 6 Vdc	N = .125	S = .187	E	-F = Compliant
	105 = 1.0 μ F	K = \pm 10%	010 = 10 Vdc	W = .250	T = Tape & Reel	F	Blank = Not Compliant
	225 = 2.2 μ F	M = \pm 20%	016 = 16 Vdc			G	
	186 = 18 μ F		020 = 20 Vdc				
	107 = 100 μ F		025 = 25 Vdc				
			035 = 35 Vdc				
			050 = 50 Vdc				



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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