

# TDT - Radial Dipped Tantalum Capacitor

Tantalum Cap/TDT

Specifications						Diagram of Dimensions					
Operating Temp. Range		-55°C to 125°C (>85°C with rated voltage derating)									
Max. Leakage Current		$I_L \leq 0.008CV$ or $0.5\mu A$ , whichever is greater									
Load Life (Test condition as:)		Rated Volt.	10	16	25	35	50	Unit:mm			
		Derated Volt.	6.3	10	16	23	33				
85°C	Rated Volt.	1000Hrs	$\Delta C/C \leq \pm 10\%$ ; $\Delta \tan \delta / \tan \delta \leq 1$ ;								
105°C	Derated Volt.	1000Hrs	$I_L \leq 0.01\%CV$ or $0.00625\mu A$ , whichever is greater								
Shelf Life (@85°C, 1000Hrs no load)		$\Delta C/C \leq \pm 10\%$ ; $\Delta \tan \delta / \tan \delta \leq 1$ ;									
		$I_L \leq 0.01\%CV$ or $0.00625\mu A$ , whichever is greater									

\*tan δ: Test at 20°C, 120Hz; \*\*ESR: Test at 20°C, 100KHz

## RoHS Compliant

Tantalum Cap/TDT

Part Number	Cap. (μF)	Rated Volt. (VDC)	Tol.	I <sub>L</sub> (μA)	tan δ* Max.	ESR** (Ω) Max.	Dimensions (mm)				Part Number	Dimensions (mm)
							P	H1 Max.	D1 Max.	D		
TDTR1K35-100	0.10	35	10%	0.5	4%	26.0	2.54	7.0	4.5	4.2	TDTR1K35-200	5.08
TDTR1K50-100		50	10%	0.5	4%	26.0	2.54	7.0	4.5	4.2	TDTR1K50-200	5.08
TDTR15K35-100	0.15	35	10%	0.5	4%	21.0	2.54	7.0	4.5	4.2	TDTR15K35-200	5.08
TDTR15K50-100		50	10%	0.5	4%	21.0	2.54	7.0	4.5	4.2	TDTR15K50-200	5.08
TDTR22K35-100	0.22	35	10%	0.5	4%	17.0	2.54	7.0	4.5	4.2	TDTR22K35-200	5.08
TDTR22K50-100		50	10%	0.5	4%	17.0	2.54	7.0	4.5	4.2	TDTR22K50-200	5.08
TDTR33K35-100	0.33	35	10%	0.5	4%	15.0	2.54	7.0	4.5	4.2	TDTR33K35-200	5.08
TDTR33K50-100		50	10%	0.5	4%	15.0	2.54	7.0	4.5	4.2	TDTR33K50-200	5.08
TDTR47K35-100	0.47	35	10%	0.5	4%	13.0	2.54	7.0	4.5	4.2	TDTR47K35-200	5.08
TDTR47K50-100		50	10%	0.5	4%	13.0	2.54	7.0	4.5	4.2	TDTR47K50-200	5.08
TDTR68K35-100	0.68	35	10%	0.5	4%	10.0	2.54	7.0	4.5	4.2	TDTR68K35-200	5.08
TDTR68K50-100		50	10%	0.5	4%	10.0	2.54	7.0	4.5	4.2	TDTR68K50-200	5.08
TDT1K25-100	1.0	25	10%	0.5	4%	10.0	2.54	7.0	4.5	4.2	TDT1K25-200	5.08
TDT1K35-100		35	10%	0.5	4%	8.0	2.54	7.0	4.5	4.2	TDT1K35-200	5.08
TDT1K50-100		50	10%	0.5	4%	8.0	2.54	8.0	5.0	4.7	TDT1K50-200	5.08
TDT1R5K16-100	1.5	16	10%	0.5	4%	10.0	2.54	7.0	4.5	4.2	TDT1R5K16-200	5.08
TDT1R5K25-100		25	10%	0.5	4%	8.0	2.54	7.0	4.5	4.2	TDT1R5K25-200	5.08
TDT1R5K35-100		35	10%	0.5	4%	6.0	2.54	7.0	4.5	4.2	TDT1R5K35-200	5.08
TDT1R5K50-100		50	10%	0.6	4%	6.0	2.54	9.5	5.5	5.5	TDT1R5K50-200	5.08
TDT2R2K10-100	2.2	10	10%	0.5	6%	13.0	2.54	7.0	4.5	4.2	TDT2R2K10-200	5.08
TDT2R2K16-100		16	10%	0.5	6%	8.0	2.54	7.0	4.5	4.2	TDT2R2K16-200	5.08
TDT2R2K25-100		25	10%	0.5	6%	6.0	2.54	7.0	4.5	4.2	TDT2R2K25-200	5.08
TDT2R2K35-100		35	10%	0.6	6%	5.0	2.54	8.0	5.0	4.7	TDT2R2K35-200	5.08
TDT2R2K50-100		50	10%	0.8	6%	3.5	2.54	9.5	5.5	5.5	TDT2R2K50-200	5.08
TDT3R3K6R3-100	3.3	6.3	10%	0.5	6%	13.0	2.54	7.0	4.5	4.2	TDT3R3K6R3-200	5.08
TDT3R3K10-100		10	10%	0.5	6%	10.0	2.54	7.0	4.5	4.2	TDT3R3K10-200	5.08
TDT3R3K16-100		16	10%	0.5	6%	6.0	2.54	7.0	4.5	4.2	TDT3R3K16-200	5.08
TDT3R3K25-100		25	10%	0.6	6%	5.0	2.54	8.0	5.0	4.7	TDT3R3K25-200	5.08
TDT3R3K35-100		35	10%	0.9	6%	4.0	2.54	8.0	5.0	4.7	TDT3R3K35-200	5.08
TDT3R3K50-100		50	10%	1.3	6%	3.0	2.54	11.0	6.5	6.5	TDT3R3K50-200	5.08
TDT4R7K6R3-100	4.7	6.3	10%	0.5	6%	10.0	2.54	7.0	4.5	4.2	TDT4R7K6R3-200	5.08
TDT4R7K10-100		10	10%	0.5	6%	8.0	2.54	7.0	4.5	4.2	TDT4R7K10-200	5.08
TDT4R7K16-100		16	10%	0.6	6%	5.0	2.54	8.0	5.0	4.7	TDT4R7K16-200	5.08
TDT4R7K25-100		25	10%	0.9	6%	4.0	2.54	8.0	5.0	4.7	TDT4R7K25-200	5.08
TDT4R7K35-100		35	10%	1.3	6%	3.0	2.54	9.5	5.5	5.5	TDT4R7K35-200	5.08
TDT4R7K50-100	50	10%	1.8	6%	2.5	2.54	11.0	6.5	6.5	TDT4R7K50-200	5.08	
TDT6R8K6R3-100	6.8	6.3	10%	0.5	6%	8.0	2.54	7.0	4.5	4.2	TDT6R8K6R3-200	5.08
TDT6R8K10-100		10	10%	0.5	6%	6.0	2.54	8.0	5.0	4.7	TDT6R8K10-200	5.08
TDT6R8K16-100		16	10%	0.8	8%	4.0	2.54	8.0	5.0	4.7	TDT6R8K16-200	5.08
TDT6R8K25-100		25	10%	1.3	6%	3.1	2.54	9.5	5.5	5.5	TDT6R8K25-200	5.08
TDT6R8K35-100		35	10%	1.9	6%	2.5	2.54	11.0	6.5	6.5	TDT6R8K35-200	5.08
TDT6R8K50-100		50	10%	2.7	6%	2.0	2.54	13.0	8.5	8.5	TDT6R8K50-200	5.08
TDT10K6R3-100	10	6.3	10%	0.5	8%	6.0	2.54	8.0	5.0	4.7	TDT10K6R3-200	5.08
TDT10K10-100		10	10%	0.8	8%	5.0	2.54	8.0	5.0	4.7	TDT10K10-200	5.08
TDT10K16-100		16	10%	1.2	8%	3.2	2.54	8.0	5.0	4.7	TDT10K16-200	5.08
TDT10K25-100		25	10%	2.0	8%	2.5	2.54	9.5	5.5	5.5	TDT10K25-200	5.08
TDT10K35-100		35	10%	2.8	8%	2.0	2.54	11.0	6.5	6.5	TDT10K35-200	5.08
TDT10K50-100	50	10%	4.0	8%	1.6	2.54	13.0	8.5	8.5	TDT10K50-200	5.08	

Part Number	Cap. ( $\mu$ F)	Rated Volt. (VDC)	Tol.	$I_L$ ( $\mu$ A)	$\tan \delta^*$ Max.	ESR** ( $\Omega$ ) Max.	Dimensions (mm)				Part Number	Dimensions (mm) P
							P	H1 Max.	D1 Max.	D		
TDT15K6R3-100	15	6.3	10%	0.8	8%	5.0	2.54	8.0	5.0	4.7	TDT15K6R3-200	5.08
TDT15K10-100		10	10%	1.2	8%	3.7	2.54	9.5	5.5	5.5	TDT15K10-200	5.08
TDT15K16-100		16	10%	1.9	8%	2.5	2.54	9.5	5.5	5.5	TDT15K16-200	5.08
TDT15K25-100		25	10%	3.0	8%	2.0	2.54	11.0	6.5	6.5	TDT15K25-200	5.08
TDT15K35-100		35	10%	4.2	8%	1.6	2.54	13.0	8.5	8.5	TDT15K35-200	5.08
TDT15K50-100		50	10%	6.0	8%	1.2	2.54	16.5	9.5	9.5	TDT15K50-200	5.08
TDT22K6R3-100	22	6.3	10%	1.1	8%	3.7	2.54	9.5	5.5	5.5	TDT22K6R3-200	5.08
TDT22K10-100		10	10%	1.7	8%	2.7	2.54	9.5	5.5	5.5	TDT22K10-200	5.08
TDT22K16-100		16	10%	2.8	8%	2.0	2.54	9.5	5.5	5.5	TDT22K16-200	5.08
TDT22K25-100		25	10%	4.4	8%	1.5	2.54	11.0	6.5	6.5	TDT22K25-200	5.08
TDT22K35-100		35	10%	6.1	8%	1.3	2.54	13.0	8.5	8.5	TDT22K35-200	5.08
TDT22K50-100		50	10%	8.8	8%	1.0	2.54	16.5	9.5	9.5	TDT22K50-200	5.08
TDT33K6R3-100	33	6.3	10%	1.7	8%	3.0	2.54	9.5	5.5	5.5	TDT33K6R3-200	5.08
TDT33K10-100		10	10%	2.6	8%	2.1	2.54	11.0	6.5	6.5	TDT33K10-200	5.08
TDT33K16-100		16	10%	4.2	8%	1.6	2.54	11.0	6.5	6.5	TDT33K16-200	5.08
TDT33K25-100		25	10%	6.6	8%	1.2	2.54	13.0	8.5	8.5	TDT33K25-200	5.08
TDT33K35-100		35	10%	9.2	8%	1.0	2.54	16.5	9.5	9.5	TDT33K35-200	5.08
TDT47K6R3-100	47	6.3	10%	2.4	8%	2.0	2.54	11.0	6.5	6.5	TDT47K6R3-200	5.08
TDT47K10-100		10	10%	3.7	8%	1.7	2.54	11.0	6.5	6.5	TDT47K10-200	5.08
TDT47K16-100		16	10%	6.0	8%	1.3	2.54	11.0	6.5	6.5	TDT47K16-200	5.08
TDT47K25-100		25	10%	9.4	8%	1.0	2.54	13.0	8.5	8.5	TDT47K25-200	5.08
TDT47K35-100		35	10%	13.1	8%	0.8	2.54	16.5	9.5	9.5	TDT47K35-200	5.08
TDT68K6R3-100	68	6.3	10%	3.4	8%	1.8	2.54	11.0	6.5	6.5	TDT68K6R3-200	5.08
TDT68K10-100		10	10%	5.4	8%	1.3	2.54	11.0	6.5	6.5	TDT68K10-200	5.08
TDT68K16-100		16	10%	8.7	8%	1.0	2.54	13.0	8.5	8.5	TDT68K16-200	5.08
TDT68K25-100		25	10%	13.6	8%	0.8	2.54	16.5	9.5	9.5	TDT68K25-200	5.08
TDT100K6R3-100	100	6.3	10%	5.0	10%	1.6	2.54	13.0	8.5	8.5	TDT100K6R3-200	5.08
TDT100K10-100		10	10%	8.0	10%	1.0	2.54	13.0	8.5	8.5	TDT100K10-200	5.08
TDT100K16-100		16	10%	12.8	10%	0.8	2.54	13.0	8.5	8.5	TDT100K16-200	5.08
TDT100K25-100		25	10%	20	10%	0.8	2.54	16.5	9.5	9.5	TDT100K25-200	5.08
TDT150K6R3-100	150	6.3	10%	7.6	10%	0.9	2.54	13.0	8.5	8.5	TDT150K6R3-200	5.08
TDT150K10-100		10	10%	12.0	10%	0.8	2.54	13.0	8.5	8.5	TDT150K10-200	5.08
TDT150K16-100		16	10%	19.2	10%	0.6	2.54	16.5	9.5	9.5	TDT150K16-200	5.08
TDT220K6R3-100	220	6.3	10%	11.0	10%	0.9	2.54	13.0	8.5	8.5	TDT220K6R3-200	5.08
TDT220K10-100		10	10%	17.6	10%	0.8	2.54	16.5	9.5	9.5	TDT220K10-200	5.08
TDT330K6R3-100	330	6.3	10%	16.6	10%	0.7	2.54	16.5	9.5	9.5	TDT330K6R3-200	5.08