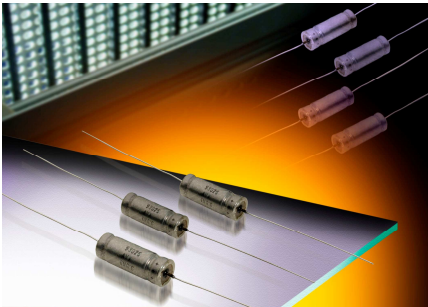


# TWD DCUltraMax™ Series

## Wet Tantalum Super Capacitor

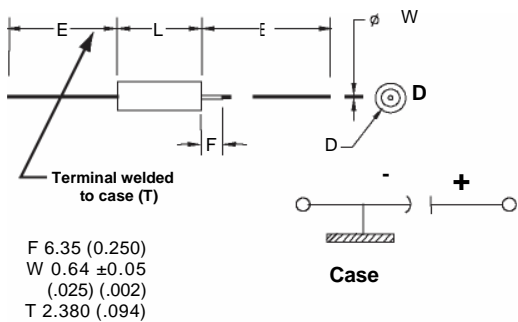


The TWD series is an axial leaded wet electrolytic tantalum capacitor designed for DC (hold-up) and low frequency pulse applications.

Utilising high CV tantalum powders allows achieving super high capacitance values similar to supercapacitor range while bringing additional benefits in terms of extended temperature range up to 85°C, and reflow soldering capability and thus addressing the two main issues of supercapacitors.

Well-established wet tantalum design is suitable for applications with hi-reliability requirements. Contact the factory about design possibilities beyond those contained in this datasheet.

### OUTLINE DIMENSIONS



### CASE DIMENSIONS: millimeters (inches)

DSCC Case Size	AVX Case Size	L +0.79 (.031) -0.41 (.016)	D Without Insulating Sleeve ±0.41 (.016)	D With Insulating Sleeve Max	E ±6.35 (.250)
T4	E	26.97 (1.062)	9.52 (.375)	10.31 (.406)	57.15 (2.250)

### VOLTAGE RATING: (Operating Temperature -55°C to 85°C)

Voltage (DC)	Rated voltage DC (VR) to 85°C			
Rated Voltage:(VR)	85°C:	2.5	6.3	10
Surge Voltage:(VS)	85°C:	2.8	7.2	11.5

### CAPACITANCE AND RATED VOLTAGE, VR (VOLTAGE CODE) RANGE (LETTER DENOTES CASE SIZE)

DC Capacitance		Rated voltage DC (VR) to 85°C		
mF	Code	2.5V	6.3V	10V
150	154	E		
50	503		E	
25	253			E

Released codes  
Engineering samples - please contact manufacturer  
\*Codes under development

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## Wet Tantalum Super Capacitor



### HOW TO ORDER

#### AVX PART NUMBER:

TWD	E	503	*	006	—	B	0	Z	0	^	00
Type	Case Size	Capacitance Code uF code: 1st two digits represent significant figures, 3rd digit represents multiplier (number of zeros to follow)	Capacitance Tolerance K = ±10% M = ±20%	Voltage Code 002=2.5Vdc 006=6.3Vdc 010=10Vdc	Insulation Sleeve C = Without Sleeve S = With Sleeve	Packaging B = Tray Pack	Inspection Level 0 = N/A	Reliability Grade Z=Non-ER	Qualification Level 0 = standard	Termination Finish 0 = Sn /Pb 60/40 7-Matte tin	Custom Test Options 00 = Standard

### RATINGS & PART NUMBER REFERENCE

AVX Part Number	Cap (mF) 25°C	DC Rated Voltage (V) At 85°C	ESR max (mOhms) at 1kHz	DC Leakage max (uA)		Maximum Capacitance change (%)		Case Size	
				+25°C	+85°C	-55°C	+85°C	AVX	DSCC
2.5 VDC at 85°C									
TWDE154*002_B0Z0*00	150	2.5	400	60	180	- 15	+ 20	E	T4
6.3 VDC at 85°C									
TWDE503*006_B0Z0*00	50	6.3	400	20	60	- 15	+ 20	E	T4
10 VDC at 85°C									
TWDE253*010_B0Z0*00	25	10	400	10	30	- 15	+ 20	E	T4

DCL is measured at rated voltage after 20 minutes.

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

AVX:

[TWDE503M006CB0Z0700](#)