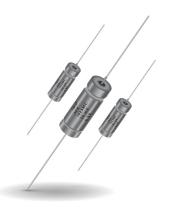
## TWD HIGH TEMP MAX CAP SERIES

## **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.

Utilizing high CV Tantalum powders the TWD series achieves extreme high capacitance values that are similar to the Super capacitor range. The TWD offers extended temperature range up to 175°C and extended life up to 10000 hrs.

Components are suitable for automatic mounting and soldering.

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.

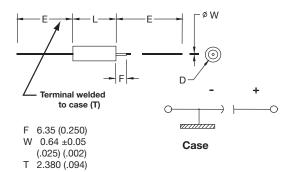
#### **FEATURES**

- · Super high capacitance
- -55 to 175°C operation temperature
- · Hermetic packaging
- Endurance up to 10 000 hrs. on selected codes
- · High electrical and mechanical stability

#### **APPLICATIONS**

- Special industrial
- Avionics
- Military
- · Down hole drilling

## **OUTLINE DIMENSIONS**



### **CASE DIMENSIONS:** millimeters (inches)

DLA Case Size	AVX Case Size	<b>L</b> +0.79 (0.031) -0.41 (0.016)	Without Insulating Sleeve ±0.41 (0.016)	<b>D</b> With Insulatiing Sleeve Max	<b>E</b> ±6.35 (0.250)
T4	E	26.97 (1.062)	9.52 (0.375)	10.31 (0.406)	57.15 (2.250)

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

DC Capac	itance	Rated Voltage DC (V <sub>R</sub> ) to 85°C								
mF	Code	3 <b>V</b>	6.3V	10V						
25	253			Е						
50	503		E							
100	104	E								

Available Ratings



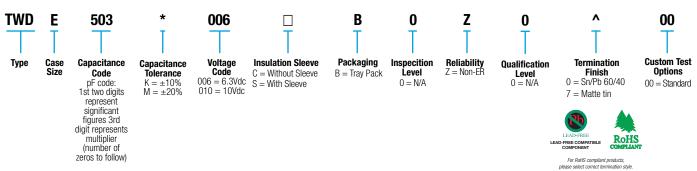
## **TWD HIGH TEMP MAX CAP SERIES**





#### **HOW TO ORDER**

## **AVX PART NUMBER:**



## **TECHNICAL SPECIFICATIONS**

Technical Data:			All technical data relate to an ambient temperature of +25°C							
Capacitance Range:			25mF to 50mF (for extended range under development, contact manufacturer)							
Capacitance Tolerance:		±10%;								
Rated Voltage (V <sub>R</sub> )	≤+105°C:	3	6.3	10						
Category Voltage (V <sub>c</sub> )	≤+125°C:	2	4.2	6.6						
Category Voltage (V <sub>c</sub> )	≤+150°C:	2	4.2	6.6						
HIgh Temperature Voltage $(V_T)$	≤+175°C:	1.5	3.15	5						
Surge Voltage (V <sub>S</sub> )	≤+105°C:	3.45	7.2	11.5						
Temperature Range:	-55°C to +175°C									
Endurance: 10,000h at +105°C/V <sub>R</sub> and 2000h at +175°C/V <sub>T</sub>										
Reliability: 1% per 1000 hours at 85°C,VR with 0.1Ω/Vseries impedance, 60% confidence level										
Termination Finish:	Sn Plating, SnPb Plating 60/40									

#### **RATINGS & PART NUMBER REFERENCE**

	Сар	Rated	(0.0)	DC Leakage max (μA) <sup>1/</sup>			Maximum Capacitance Change (%)				ESR Max	Case Size		Lifetime	Lifetime	
AVX Part Number	(mF) <sup>2/</sup> at 25°C	Voltage (V)		+25°C	+85°C & +105°C & +125°C		-55°C	+85°C	+125°C	+150°C	+175°C	(mOhms) at 1kHz	AVX	DLA	at 105°C (hrs.)	at 175°C (hrs.)
	3 VDC at 105°C															
TWDE104*003 B0Z0*00	100	3	85	40	60	500	-25	38	55	65	80	500	E	T4	2,000	1000
6.3 VDC at 105°C																
TWDE503*006□B0Z0^00	50	6.3	85	20	60	600	-15	20	30	50	60	400	E	T4	10,000	2000
10 VDC at 105°C																
TWDE253*010□B0Z0^00	25	10	85	20	60	600	-15	20	30	35	40	400	Е	T4	10,000	2 000

<sup>1/</sup> DCL is measured at rated or category voltage after 20 minutes.



<sup>2/</sup> DC capacitance is measured by discharging initially fully charged capacitor down to 0.37Ur through 1kOhm.

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M39006/25-0149 M39006/22-0636 M39006/22-0660 M39006/31-0060 M39006/22-0660H TWAB157K060SBDZ0000
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M39006/22-0370 135D826X9075F6 T18D108K075EZSS 109D685X9125C2 135D146X9125F6E3 109D256X9050F2E3 109D227X0030F0 109D146X0125F2 TWCA685K075SCSZ0000 13017-10KS