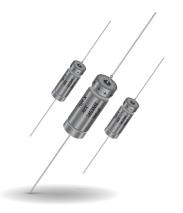
TWA-X SERIES

High Temperature – COTS-Plus 230°C Wet Electrolytic Tantalum Capacitor





The TWA-X series represents a high temperature version of conventional wet electrolytic tantalum capacitors that are designed for use at 230°C. High capacitance cathode system allows high level of CV (Capacitance/Voltage) in standard case sizes.

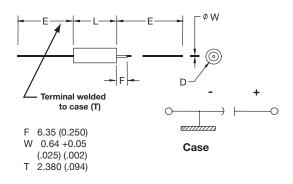
Selected values of the TWA-X are capable of up to 500 hours of operation at extreme temperatures with the applicable derated voltage.

Mechanical testing being conducted in accordance to MIL-STD- 202, High Frequency vibration - method 204, test condition "D" Mechanical Shock Test - method 213, test condition "I".

This design includes a welded tantalum can and header assembly that provides a hermetic seal to withstand also harsh shock and vibration requirements.

Contact the factory for additional options for customized component design.

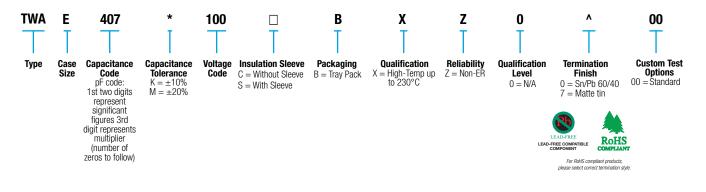
OUTLINE DIMENSIONS



CASE DIMENSIONS: millimeters (inches)

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

HOW TO ORDER AVX PART NUMBER:





The Important Information/Disclaimer is incorporated in the catalog where these specifications came from or available online at www.avx.com/disclaimer/ by reference and should be reviewed in full before placing any order.



RIPPLE CURRENT MULTIPLIERS vs. Frequency, temperature and applied voltage^{1/2/}

Ap	ency of plied Current		120)Hz			800)Hz		1kHz					
Ambient Still Air Temperature (°C)		≤55	85	105	125	≤55	85	105	125	≤55	85	105	125		
0/ -4	100%	0.60	0.39	-	-	0.71	0.43	-	-	0.72	0.45	-	-		
% of 85°C	90%	0.60	0.46	-	-	0.71	0.55	-	-	0.72	0.55	-	-		
Rated	80%	0.60	0.52	0.35	-	0.71	0.62	0.42	-	0.72	0.62	0.42	-		
Peak Voltage	70%	0.60	0.58	0.44	-	0.71	0.69	0.52	-	0.72	0.70	0.52	-		
	66-2/3%	0.60	0.60	0.46	0.27	0.71	0.71	0.55	0.32	0.72	0.72	0.55	0.32		

Ap	ency of plied Current		10	ίHz			40k	Hz		100kHz					
Ambient Still Air Temperature (°C)		≤55	85	105	125	≤55	85	105	125	≤55	85	105	125		
0/ of	100%	0.88	0.55	-	-	1.00	0.63	-	-	1.10	0.69	-	-		
% of 85°C	90%	0.88	0.67	-	-	1.00	0.77	-	_	1.10	0.85	-	-		
Rated	80%	0.88	0.76	0.52	-	1.00	0.87	0.59	-	1.10	0.96	0.65	-		
Peak Voltage	70%			-	1.00	0.97	0.73	-	1.10	1.07	0.80	-			
	66-2/3%			1.00	1.00	0.77	0.45	1.10	1.10	0.85	0.50				

1/At 125°C the rated voltage of the capacitors decreases to 66 2/3 of the 85°C rated voltage.

2/The peak of the applied ac ripple voltage plus the applied dc voltage must not exceed the dc voltage rating of the capacitors.

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

Capacita	ance	Rated Voltage DC (V_R) to 85°C								
μF	Code	75V	100V	125V						
220	227	E								
330	337			E						
400	407		E							
470	477									

Available Ratings

RATINGS & PART NUMBER REFERENCE

AVX Part Number	Case Size		Cap (µF) DC Rated Voltage		ESR max (Ohms)	DC Leakage max (µA)		Impedance max (Ohms)	Maximum Capacitance Change (%)			AC Ripple (mA rms)		200°C Capability max.			. 230°C Capability max		
	AVX	DLA	25°C at (V)	-	at	+25°C	+85 & +125°C	-55°C at 120Hz	-55°C	+85°C		85°C at 40kHz	Time at 85°C (hrs)	Ur (V)	Timeat 200°C (hrs)	DCL@ 200°C (µA)	Ur (V)	Timeat 230°C (hrs)	
TWAE227*075□BXZ0^00	Е	T4	220	75	1.2	5	50	20	-40	8	15	1800	2000	45	2000	200	25	500	200
TWAE407*100 BXZ0*00	E	T4	400	100	0.8	10	150	10	-50	10	35	4100	2000	60	2000	1000	25	500	1000
TWAE337*125□BXZ0^00	Е	T4	330	125	0.8	10	60	10	-45	15	25	3600	500	75	500	1000	40	500	1000

All technical data relates to an ambient temperature of +25°C. Capacitance and DF are measured at 120Hz, 0.5RMS with DC bias of 2.2V. DCL is measured at rated voltage after 5 minutes. NOTE: AVX reserves the rights to supply higher voltage rating in the same case size, to the same reliability standards.

$DF = 2\pi fC x (ESR)$

2π = 6.28

f = 120Hz

C = Actual measured capacitance

ESR = Actual measured ESR



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