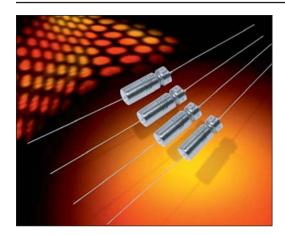
TWC-Y High Temperature Series



COTS-Plus 200°C Wet Tantalum

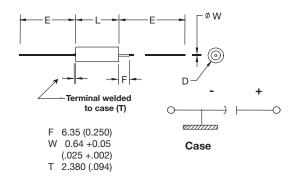


The TWC-Y high temperature series represents a COTS-Plus version of conventional wet electrolytic tantalum capacitors that are designed for use at 200°C. Components are capable of 300 hours of operation at extreme temperature with the applicable derated voltage.

This design includes a welded tantalum can and header assembly that provides a hermetic seal to withstand harsh environments.

This is a new product line so please contact the factory for availability and additional details.

OUTLINE DIMENSIONS



CASE DIMENSIONS: millimeters (inches)

DSCC	AVX	L	D	D	E		
Case	Case	+0.79 (0.031)	Basic Case	Insulated Case	±6.35 (0.250)		
Size	Size	-0.41 (0.016)	±0.41 (0.016)	Max			
T1	Α	11.51 (0.453)	4.78 (0.188)	5.56 (0.219)	38.10 (1.500)		
T2	В	16.28 (0.641)	7.14 (0.281)	7.92 (0.312)	57.15 (2.250)		
T3	D	19.46 (0.766)	9.52 (0.375)	10.31 (0.406)	57.15 (2.250)		
T4	Е	26.97 (1.062)	9.52 (0.375)	10.31 (0.406)	57.15 (2.250)		

TECHNICAL SPECIFICATIONS

Tananauah wa Danaua	Town and two Donner 5500 to 100000											
Surge Voltage (V _S)	≤ 85°C	6.9	9.2	11.5	17.3	28.8	34.5	57.5	69	86.3	115	144
High Temp, Voltage (V _T) 200°		3.6	4.8	6	9	12	18	30	36	45	60	75
Category Voltage (V _C)	125°C	4	5	7	10	15	20	30	40	50	65	85
Rated Voltage (V _R)	≤ 85°C	6	8	10	15	25	30	50	60	75	100	125
Capacitance Tolerance:	±10%; ±20%											
Technical Data:		Unless otherwise specified, all technical data relate to an ambient temperature of +25°C										

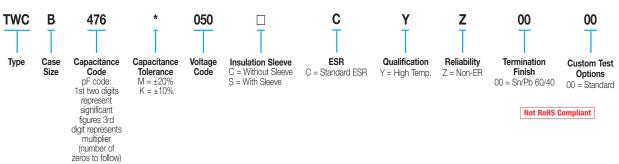
Temperature Range: -55°C to +200°C

TWC-Y High Temperature Series



COTS-Plus 200°C Wet Tantalum

HOW TO ORDER AVX PART NUMBER:



STANDARD RATINGS & PART NUMBER REFERENCE

	Cap (µF)	DC Rated	DC Leak	DC Leakage (μA)		ESR Max	Maximum Capacitance			Case	Size	
AVX Part Number	+25°C at 120Hz	Voltage (V) at +85°C	+25°C	+85°C	(Max)	(Ohms) at 120Hz	Change (%)			Standard	AVX	
				& +125°C			-55°C	+85°C	+125°C	Junuaru	AVA	
6 VDC at 85°C 4 VDC at 125°C 3.6 VDC at 200°C												
TWCB147*006□CYZ0000	140	6	1	3	21	1.99	-40	14	16	T2	В	
8 VDC at 85°C 5 VDC at 125°C 4.8 VDC at 200°C												
TWCB127*008□CYZ0000	120	8	1	2	20	2.21	-44	17.5	20	T2	В	
10 VDC at 85°C 7 VDC at 125°C 6 VDC at 200°C												
TWCB107*010hCYZ0000	100	10	1	4	15	1.99	-36	14	16	T2	В	
	9 VDC at 200°C											
TWCB706*015hCYZ0000	70	15	1	4	13	2.46	-28	14	16	T2	В	
TWCD177*015hCYZ0000	170	15	2	10	25	1.95	-32	14	16	T3	D	
25 VDC at 85°C 15 VDC at 125°C 15 VDC at 200°C												
*TWCA686*025hCYZ0000	68	25	2	9	22	4.29	-40	12	15	T1	А	
TWCB107*025hCYZ0000	100	25	1	10	15	1.99	-28	13	15	T2	В	
TWCD187*025hCYZ0000	180	25	2	18	26	1.92	-48	13	15	T3	D	
		30	VDC at 85°C	20 VDC	at 125°C	18 VDC at 2	00°C					
*TWCA566*030hCYZ0000	56	30	2	9	22	5.21	-38	12	15	T1	А	
TWCB686*030hCYZ0000	68	30	1	8	13	2.54	-24	13	15	T2	В	
50 VDC at 85°C 30 VDC at 125°C 30 VDC at 200°C												
*TWCA336*050hCYZ0000	33	50	2	9	12.3	4.95	-29	10	12	T1	А	
TWCB476*050hCYZ0000	47	50	1 VDC at 85°0	9	11	3.11	-28	13	15	T2	В	
	at 125°C	C 45 VDC at 200°C										
*TWCA226*075hCYZ0000	22	75	3	12	8.5	5.13	-19	10	12	T1	А	
100 VDC at 85°C 65 VDC at 125°C 60 VDC at 200°C												
TWCB226*100hCYZ0000	22	100	1	9	7.5	4.52	-16	8	8	T2	В	
TWCE127*100hCYZ0000	120	100	12	48	25	2.76	-35	15	17	T4	Е	
125 VDC at 85°C 85 VDC at 125°C 75 VDC at 200°C												
TWCB276*125hCYZ0000	27	125	5	24	7.2	3.54	-18	12	15	T2	В	
TWCE826*125hCYZ0000	82	125	12	48	17.4	2.82	-30	15	17	T4	Е	

All technical data relates to an ambient temperature of +25C. 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 right to supply higher voltage rating in the same case size to the same reliability standards.

200°C LIFE TEST: Components are capable of 300 hours of operation at 200°C with the applicable 60% derated voltage. Following the life test components which are stabilized at 25° C shall exhibit:

Leakage less than 200% the original requirement or \pm 10uA (whichever is greater)

ESR not greater than 200% the original requirement

Capacitance increase less than 10% or decrease less than 20% the initial measurement



^{*}The T1 A case components will available shortly after the initial product release.