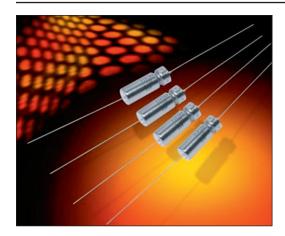
TWC-Y High Temperature Series



COTS-Plus 200°C Wet Tantalum

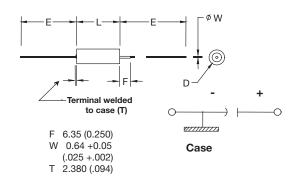


The TWC-Y high temperature series represents a COTS-Plus version of conventional wet electrolytic tantalum capacitors that are designed for use at 200°C. Components are capable of 300 hours of operation at extreme temperature with the applicable derated voltage.

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

Technical Data:		Unless otherwise specified, all technical data relate to an ambient temperature of +25°C									
Capacitance Tolerance:	±10%; ±20%										
Rated Voltage (V _R)	≤ 85°C	6	8	10	15	25	30	50	75	100	125
Category Voltage (V _C)	125°C	4	5	7	10	15	20	30	50	65	85
High Temp, Voltage (V _T) 200°C		3.6	4.8	6	9	12	18	30	45	60	75
Surge Voltage (V _S)	≤ 85°C	6.9	9.2	11.5	17.3	28.8	34.5	57.5	86.3	115	144
Temperature Range:	-55°C to	+200°C									

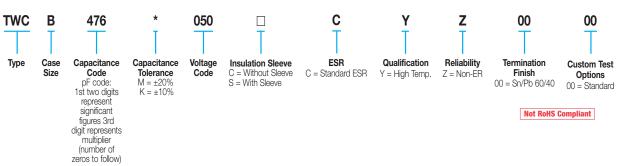


TWC-Y High Temperature Series



COTS-Plus 200°C Wet Tantalum





STANDARD RATINGS & PART NUMBER REFERENCE

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

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 ± 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.