

TWC SERIES

COTS-Plus – Conventional Wet Tantalum

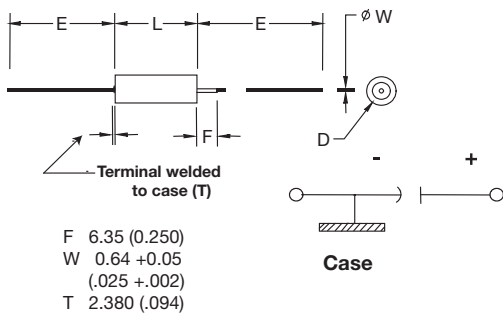


The TWC series represents a COTS-Plus version of conventional wet electrolytic tantalum capacitors. This data sheet incorporates all ratings available in MIL-PRF-39006 /22 /25 /30 and /31. Contact the factory about cap and voltage design possibilities beyond those contained in this datasheet.

This design includes a welded tantalum can and header assembly that provides a hermetic seal to withstand harsh environments and includes selected Group A testing from MIL-PRF-39006.

For military qualified versions please refer to the MIL-PRF-39006 datasheet located on the KYOCERA AVX website.

OUTLINE DIMENSIONS



CASE DIMENSIONS: millimeters (inches)

DLA Case Size	Case Size	L +0.79 (0.031) -0.41 (0.016)	D Basic Case ±0.41 (0.016)	D Insulated Case Max	E ±6.35 (0.250)
T1	A	11.51 (0.453)	4.78 (0.188)	5.56 (0.219)	38.10 (1.500)
T2	B	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	E	26.97 (1.062)	9.52 (0.375)	10.31 (0.406)	57.15 (2.250)

VOLTAGE RATINGS (Operating Temperature -55°C to 125°C)

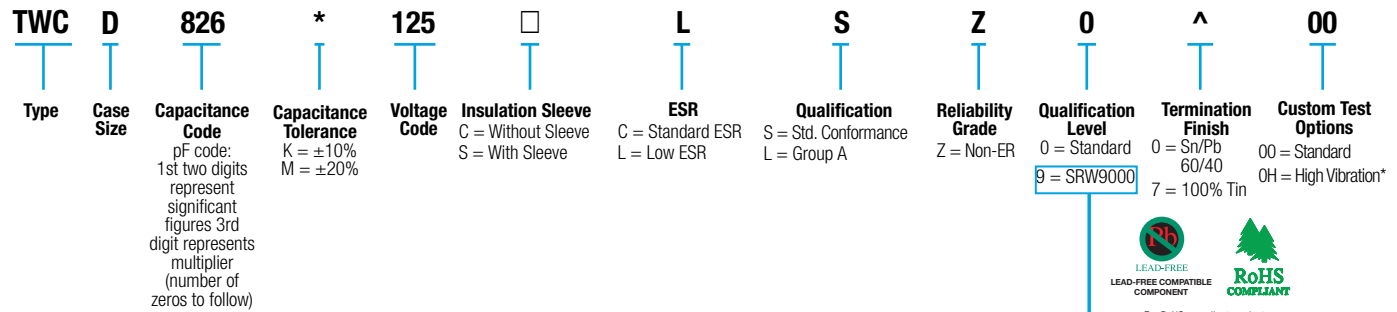
Voltage (DC)		6	8	10	15	25	30	50	60	75	100	125
Rated Voltage: (V _r)	85°C											
Derated Voltage: (V _d)	125°C	4	5	6	10	15	20	30	40	50	65	85
Surge Voltage: (V _s)	85°C	6.9	9.2	11.5	17.3	28.8	34.5	57.5	69	86.3	115	144

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HOW TO ORDER

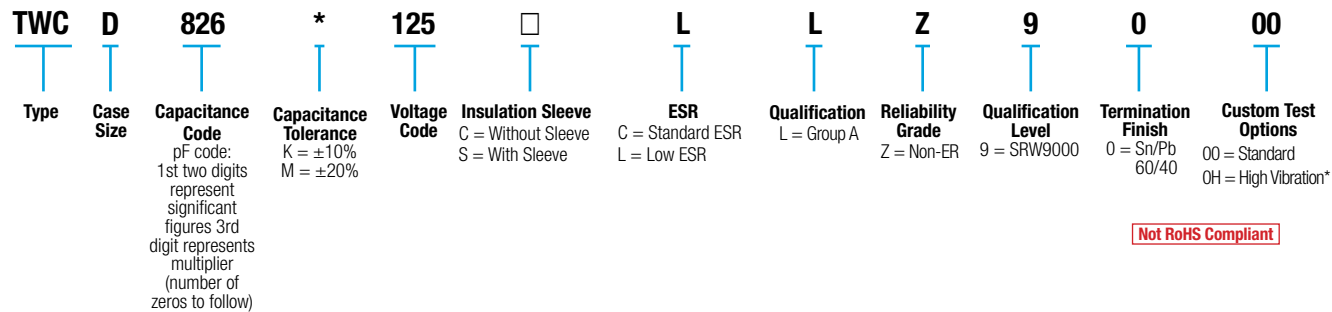
PART NUMBER:



*High vibration qualified parts are currently under development. Please contact the factory for additional details and availability.



SPACE LEVEL OPTIONS TO SRW9000*:



*Check with factory for availability and testing details.

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

Frequency of Applied Ripple Current	Ambient Still Air Temperature (°C)	120Hz				800Hz				1kHz			
		≤55	85	105	125	≤55	85	105	125	≤55	85	105	125
% of Rated Peak Voltage	100%	0.60	0.39	–	–	0.71	0.43	–	–	0.72	0.45	–	–
	90%	0.60	0.46	–	–	0.71	0.55	–	–	0.72	0.55	–	–
	80%	0.60	0.52	0.35	–	0.71	0.62	0.42	–	0.72	0.62	0.42	–
	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

Frequency of Applied Ripple Current	Ambient Still Air Temperature (°C)	10kHz				40kHz				100kHz			
		≤55	85	105	125	≤55	85	105	125	≤55	85	105	125
% of Rated Peak Voltage	100%	0.88	0.55	–	–	1.00	0.63	–	–	1.10	0.69	–	–
	90%	0.88	0.67	–	–	1.00	0.77	–	–	1.10	0.85	–	–
	80%	0.88	0.76	0.52	–	1.00	0.87	0.59	–	1.10	0.96	0.65	–
	70%	0.88	0.85	0.64	–	1.00	0.97	0.73	–	1.10	1.07	0.80	–
	66-2/3%	0.88	0.88	0.68	0.40	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.

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STANDARD RATINGS & PART NUMBER REFERENCE

Part Number	Cap (µF) 25°C at 120Hz	DC Rated Voltage (V) at 85°C	DC Leakage (µA)		DF (Max)	ESR Max (Ohms) at 120Hz	Impedance max (Ohms) -55°C at 120Hz	Maximum Capacitance Change (%)			AC Ripple (mA rms) 85°C at 40kHz	Case Size	
			+25°C	+85°C & +125°C				-55°C	+85°C	+125°C		Standard	AVX
TWCA306*006□CSZ0^00	30	6	1	2	9	3.98	100	-40	10.5	12	820	T1	A
TWCA306*006□LSZ0^00					4.5	1.99							
TWCA686*006□CSZ0^00	68	6	1	2	15	3.16	60	-40	14	16	960	T1	A
TWCA686*006□LSZ0^00					7.5	1.58							
TWCB147*006□CSZ0^00	140	6	1	3	21	1.99	40	-40	14	16	1,200	T2	B
TWCB147*006□LSZ0^00					10.5	0.99							
TWCB277*006□CSZ0^00	270	6	1	6.5	45	2.21	25	-44	17.5	20	1,375	T2	B
TWCB277*006□LSZ0^00					22.5	1.11							
TWCD337*006□CSZ0^00	330	6	2	7.9	36	1.45	20	-44	14	16	1,800	T3	D
TWCD337*006□LSZ0^00					18	0.73							
TWCD567*006□CSZ0^00	560	6	2	13	55	1.3	25	-64	17.5	20	1,900	T3	D
TWCD567*006□LSZ0^00					27.5	0.65							
TWCE128*006□CSZ0^00	1,200	6	3	14	90	1	20	-80	25	25	2,265	T4	E
TWCE128*006□LSZ0^00					45	0.5							
TWCA256*008□CSZ0^00	25	8	1	2	7.5	3.98	100	-40	10.5	12	820	T1	A
TWCA256*008□LSZ0^00					3.75	1.99							
TWCA566*008□CSZ0^00	56	8	1	2	14	3.32	59	-40	14	16	900	T1	A
TWCA566*008□LSZ0^00					7	1.66							
TWCB127*008□CSZ0^00	120	8	1	2	20	2.21	50	-44	17.5	20	1,220	T2	B
TWCB127*008□LSZ0^00					10	1.11							
TWCB227*008□CSZ0^00	220	8	1	7	37	2.23	30	-44	17.5	20	1,370	T2	B
TWCB227*008□LSZ0^00					18.5	1.12							
TWCD297*008□CSZ0^00	290	8	2	6	34	1.56	25	-64	17.5	20	1,770	T3	D
TWCD297*008□LSZ0^00					17	0.78							
TWCD437*008□CSZ0^00	430	8	2	14	46	1.42	25	-64	17.5	20	1,825	T3	D
TWCD437*008□LSZ0^00					23	0.71							
TWCE857*008□CSZ0^00	850	8	4	16	60	0.94	22	-80	25	25	2,330	T4	E
TWCE857*008□LSZ0^00					30	0.47							
TWCA206*010□CSZ0^00	20	10	1	2	6	3.98	175	-32	10.5	12	820	T1	A
TWCA206*010□LSZ0^00					3	1.99							
TWCA476*010□CSZ0^00	47	10	1	2	13	3.67	100	-36	14	16	855	T1	A
TWCA476*010□LSZ0^00					6.5	1.84							
TWCB107*010□CSZ0^00	100	10	1	4	15	1.99	60	-36	14	16	1,200	T2	B
TWCB107*010□LSZ0^00					7.5	0.99							
TWCB187*010□CSZ0^00	180	10	1	7	30	2.21	40	-36	14	16	1,365	T2	B
TWCB187*010□LSZ0^00					15	1.11							
TWCD257*010□CSZ0^00	250	10	2	10	30	1.59	30	-40	14	16	1,720	T3	D
TWCD257*010□LSZ0^00					15	0.8							
TWCD397*010□CSZ0^00	390	10	2	16	44	1.5	25	-64	17.5	20	1,800	T3	D
TWCD397*010□LSZ0^00					22	0.75							
TWCE757*010□CSZ0^00	750	10	4	16	50	0.88	23	-80	25	25	2,360	T4	E
TWCE757*010□LSZ0^00					25	0.44							
TWCA156*015□CSZ0^00	15	15	1	2	5	4.42	155	-24	10.5	12	780	T1	A
TWCA156*015□LSZ0^00					2.5	2.21							
TWCA336*015□CSZ0^00	33	15	1	2	10	4.02	90	-28	14	16	820	T1	A
TWCA336*015□LSZ0^00					5	2.01							
TWCB706*015□CSZ0^00	70	15	1	4	13	2.46	75	-28	14	16	1,150	T2	B
TWCB706*015□LSZ0^00					6.5	1.23							
TWCB127*015□CSZ0^00	120	15	1	7	18	1.99	50	-28	17.5	20	1,450	T2	B
TWCB127*015□LSZ0^00					9	0.99							
TWCD177*015□CSZ0^00	170	15	2	10	25	1.95	35	-32	14	16	1,480	T3	D
TWCD177*015□LSZ0^00					12.5	0.98							
TWCD277*015□CSZ0^00	270	15	2	16	32	1.57	30	-56	17.5	20	1,740	T3	D
TWCD277*015□LSZ0^00					16	0.79							
TWCE547*015□CSZ0^00	540	15	6	24	40	0.98	23	-80	25	25	2,330	T4	E
TWCE547*015□LSZ0^00					20	0.49							
TWCA106*025□CSZ0^00	10	25	1	2	4	5.31	220	-16	8	9	715	T1	A
TWCA106*025□LSZ0^00					2	2.66							
TWCA226*025□CSZ0^00	22	25	1	2	6.6	3.98	140	-20	10.5	12	825	T1	A
TWCA226*025□LSZ0^00					3.3	1.99							
TWCB506*025□CSZ0^00	50	25	1	2	11	2.92	70	-28	13	15	1,130	T2	B
TWCB506*025□LSZ0^00					5.5	1.46							

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: KYOCERA AVX reserves the rights to supply higher voltage rating in the same case size, to the same reliability standards.

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STANDARD RATINGS & PART NUMBER REFERENCE

Part Number	Cap (µF) 25°C at 120Hz	DC Rated Voltage (V) at 85°C	DC Leakage (µA)		DF (Max)	ESR Max (Ohms) at 120Hz	Impedance max (Ohms) -55°C at 120Hz	Maximum Capacitance Change (%)			AC Ripple (mA rms) 85°C at 40kHz	Case Size	
			+25°C	+85°C & +125°C				-55°C	+85°C	+125°C		Standard	AVX
TWCB107*025□CSZ0^00	100	25	1	10	15	1.99	50	-28	13	15	1,435	T2	B
TWCB107*025□LSZ0^00					7.5	0.99							
TWCD127*025□CSZ0^00	120	25	2	6	21	2.32	38	-32	13	15	1,450	T3	D
TWCD127*025□LSZ0^00					10.5	1.16							
TWCD187*025□CSZ0^00	180	25	2	18	26	1.92	32	-48	13	15	1,525	T3	D
TWCD187*025□LSZ0^00					13	0.96							
TWCE357*025□CSZ0^00	350	25	7	28	35	1.33	24	-70	25	25	1,970	T4	E
TWCE357*025□LSZ0^00					17.5	0.67							
TWCA805*030□CSZ0^00	8	30	1	2	4	6.64	275	-16	8	12	640	T1	A
TWCA805*030□LSZ0^00					2	3.32							
TWCA156*030□CSZ0^00	15	30	1	2	5	4.42	175	-20	10.5	12	780	T1	A
TWCA156*030□LSZ0^00					2.5	2.21							
TWCB406*030□CSZ0^00	40	30	1	5	10	3.32	65	-24	10.5	12	1,120	T2	B
TWCB406*030□LSZ0^00					5	1.66							
TWCB686*030□CSZ0^00	68	30	1	8	13	2.54	60	-24	13	15	1,285	T2	B
TWCB686*030□LSZ0^00					6.5	1.27							
TWCD107*030□CSZ0^00	100	30	2	12	17	2.26	40	-28	10.5	12	1,450	T3	D
TWCD107*030□LSZ0^00					8.5	1.13							
TWCD157*030□CSZ0^00	150	30	2	18	23	2.03	35	-48	13	15	1,525	T3	D
TWCD157*030□LSZ0^00					11.5	1.02							
TWCE307*030□CSZ0^00	300	30	8	32	31	1.37	25	-60	25	25	1,950	T4	E
TWCE307*030□LSZ0^00					15.5	0.69							
TWCA505*050□CSZ0^00	5	50	1	2	3	7.96	400	-16	5	6	580	T1	A
TWCA505*050□LSZ0^00					1.5	3.98							
TWCA106*050□CSZ0^00	10	50	1	2	4	5.31	250	-24	8	9	715	T1	A
TWCA106*050□LSZ0^00					2	2.66							
TWCB256*050□CSZ0^00	25	50	1	5	8	4.25	95	-20	10.5	12	1,005	T2	B
TWCB256*050□LSZ0^00					4	2.13							
TWCB476*050□CSZ0^00	47	50	1	9	11	3.11	70	-28	13	15	1,155	T2	B
TWCB476*050□LSZ0^00					5.5	1.56							
TWCD606*050□CSZ0^00	60	50	2	12	12	2.65	45	-16	10.5	12	1,335	T3	D
TWCD606*050□LSZ0^00					6	1.33							
TWCD826*050□CSZ0^00	82	50	2	16	15	2.43	45	-32	13	15	1,400	T3	D
TWCD826*050□LSZ0^00					7.5	1.22							
TWCE167*050□CSZ0^00	160	50	8	32	17	1.41	27	-50	25	25	1,900	T4	E
TWCE167*050□LSZ0^00					8.5	0.71							
TWCA405*060□CSZ0^00	4	60	1	2	2.8	9.29	550	-16	5	6	525	T1	A
TWCA405*060□LSZ0^00					1.4	4.65							
TWCA825*060□CSZ0^00	8.2	60	1	2	4	6.47	275	-24	8	9	625	T1	A
TWCA825*060□LSZ0^00					2	3.24							
TWCB206*060□CSZ0^00	20	60	1	5	7	4.64	105	-16	10.5	12	930	T2	B
TWCB206*060□LSZ0^00					3.5	2.32							
TWCB396*060□CSZ0^00	39	60	1	9	10	3.4	90	-28	10.5	12	1,110	T2	B
TWCB396*060□LSZ0^00					5	1.7							
TWCD506*060□CSZ0^00	50	60	2	12	10	2.65	50	-16	10.5	12	1,330	T3	D
TWCD506*060□LSZ0^00					5	1.33							
TWCD686*060□CSZ0^00	68	60	2	16	13	2.54	50	-32	10.5	12	1,365	T3	D
TWCD686*060□LSZ0^00					7	1.27							
TWCE147*060□CSZ0^00	140	60	8	32	16	1.52	28	-40	20	20	1,850	T4	E
TWCE147*060□LSZ0^00					8	0.76							
TWCA355*075□CSZ0^00	3.5	75	1	2	2.5	9.48	650	-16	5	6	525	T1	A
TWCA355*075□LSZ0^00					1.25	4.74							
TWCA685*075□CSZ0^00	6.8	75	1	2	3.5	6.83	300	-20	8	9	610	T1	A
TWCA685*075□LSZ0^00					1.75	3.42							
TWCB156*075□CSZ0^00	15	75	1	5	6	5.31	150	-16	8	9	890	T2	B
TWCB156*075□LSZ0^00					3	2.66							
TWCB336*075□CSZ0^00	33	75	1	10	10	4.02	90	-24	10.5	15	1,000	T2	B
TWCB336*075□LSZ0^00					5	2.01							
TWCD406*075□CSZ0^00	40	75	2	12	9	2.99	60	-16	10.5	12	1,250	T3	D
TWCD406*075□LSZ0^00					4.5	1.5							
TWCD566*075□CSZ0^00	56	75	2	17	11	2.61	60	-28	10.5	15	1,335	T3	D
TWCD566*075□LSZ0^00					5.5	1.31							

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.

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			+25°C	+85°C & +125°C				-55°C	+85°C	+125°C		Standard	AVX
TWCE117*075□CSZ0^00	110	75	9	36	12	1.45	29	-35	20	20	1,850	T4	E
TWCE117*075□LSZ0^00					6	0.73							
TWCA255*100□CSZ0^00	2.5	100	1	2	2	10.62	950	-16	7	8	505	T1	A
TWCA255*100□LSZ0^00					1	5.31							
TWCA475*100□CSZ0^00	4.7	100	1	2	3	8.47	500	-16	7	8	565	T1	A
TWCA475*100□LSZ0^00					1.5	4.24							
TWCB116*100□CSZ0^00	11	100	1	4	5	6.03	200	-16	8	8	835	T2	B
TWCB116*100□LSZ0^00					2.5	3.02							
TWCB226*100□CSZ0^00	22	100	1	9	7.5	4.52	100	-16	8	8	965	T2	B
TWCB226*100□LSZ0^00					3.75	2.26							
TWCD306*100□CSZ0^00	30	100	2	12	7	3.1	80	-16	8	8	1,240	T3	D
TWCD306*100□LSZ0^00					3.5	1.56							
TWCD436*100□CSZ0^00	43	100	2	17	8.5	2.62	70	-20	8	8	1,335	T3	D
TWCD436*100□LSZ0^00					4.25	1.31							
TWCE866*100□CSZ0^00	86	100	9	36	10	1.54	30	-25	15	15	1,800	T4	E
TWCE866*100□LSZ0^00					5	0.77							
TWCB905*125□CSZ0^00	9	125	1	5	5	7.37	240	-16	7	8	755	T2	B
TWCB905*125□LSZ0^00					2.5	3.69							
TWCD186*125□CSZ0^00	18	125	2	9	5	3.69	129	-16	7	8	1,130	T3	D
TWCD186*125□LSZ0^00					2.5	1.85							
TWCD256*125□CSZ0^00	25	125	2	13	6	3.18	93	-16	7	8	1,200	T3	D
TWCD256*125□LSZ0^00					3	1.59							
TWCE566*125□CSZ0^00	56	125	10	40	6.5	1.54	32	-25	15	15	1,800	T4	E
TWCE566*125□LSZ0^00					3.25	0.77							

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.

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Part Number	Cap (µF) 25°C at 120Hz	DC Rated Voltage (V) at 85°C	DC Leakage (µA)		DF (Max)	ESR Max (Ohms) at 120Hz	Impedance max (Ohms) -55°C at 120Hz	Maximum Capacitance Change (%)			AC Ripple (mA rms) 85°C at 40kHz	Case Size	
			+25°C	+85°C & +125°C				-55°C	+85°C	+125°C		Standard	AVX
TWCA227*006□CSZ0^00	220	6	2	9	50	3.02	36	-64	13	16	1,000	T1	A
TWCA227*006□LSZ0^00					25	1.51							
TWCB827*006□CSZ0^00	820	6	3	14	155	2.51	18	-88	16	20	1,500	T2	B
TWCB827*006□LSZ0^00					77.5	1.26							
TWCD158*006□CSZ0^00	1,500	6	5	20	172	1.52	18	-90	20	25	1,900	T3	D
TWCD158*006□LSZ0^00					86	0.76							
TWCE228*006□CSZ0^00	2,200	6	6	24	170	1.03	13	-90	25	30	2,300	T4	E
TWCE228*006□LSZ0^00					85	0.52							
TWCA187*008□CSZ0^00	180	8	2	9	41	3.02	45	-60	13	16	1,000	T1	A
TWCA187*008□LSZ0^00					20.5	1.51							
TWCB687*008□CSZ0^00	680	8	3	14	130	2.54	22	-83	16	20	1,500	T2	B
TWCB687*008□LSZ0^00					65	1.27							
TWCD158*008□CSZ0^00	1,500	8	5	20	170	1.5	18	-90	20	25	1,900	T3	D
TWCD158*008□LSZ0^00					85	0.75							
TWCE188*008□CSZ0^00	1,800	8	7	25	138	1.02	14	-90	25	30	2,300	T4	E
TWCE188*008□LSZ0^00					69	0.51							
TWCA157*010□CSZ0^00	150	10	2	9	34	3.01	54	-55	13	16	900	T1	A
TWCA157*010□LSZ0^00					17	1.51							
TWCB567*010□CSZ0^00	560	10	3	16	106	2.51	27	-77	16	20	1,450	T2	B
TWCB567*010□LSZ0^00					53	1.26							
TWCD128*010□CSZ0^00	1,200	10	5	20	137	1.51	18	-88	20	25	1,850	T3	D
TWCD128*010□LSZ0^00					68.5	0.76							
TWCE158*010□CSZ0^00	1,500	10	7	25	114	1.01	15	-88	25	30	2,300	T4	E
TWCE158*010□LSZ0^00					57	0.51							
TWCA107*015□CSZ0^00	100	15	2	9	30	3.98	72	-44	13	16	900	T1	A
TWCA107*015□LSZ0^00					15	1.99							
TWCB397*015□CSZ0^00	390	15	3	16	74	2.52	31	-66	16	20	1,450	T2	B
TWCB397*015□LSZ0^00					37	1.26							
TWCD827*015□CSZ0^00	820	15	6	24	111	1.8	22	-77	20	25	1,800	T3	D
TWCD827*015□LSZ0^00					55.5	0.9							
TWCE108*015□CSZ0^00	1,000	15	8	32	92	1.22	17	-77	25	30	2,300	T4	E
TWCE108*015□LSZ0^00					46	0.61							
TWCA686*025□CSZ0^00	68	25	2	9	22	4.29	90	-40	12	15	850	T1	A
TWCA686*025□LSZ0^00					11	2.15							
TWCB277*025□CSZ0^00	270	25	3	16	55	2.7	33	-62	13	16	1,400	T2	B
TWCB277*025□LSZ0^00					27.5	1.35							
TWCD567*025□CSZ0^00	560	25	7	28	76	1.8	24	-72	20	25	1,750	T3	D
TWCD567*025□LSZ0^00					38	0.9							
TWCE687*025□CSZ0^00	680	25	8	32	63	1.23	19	-72	25	30	2,100	T4	E
TWCE687*025□LSZ0^00					31.5	0.62							
TWCA566*030□CSZ0^00	56	30	2	9	22	5.21	100	-38	12	15	800	T1	A
TWCA566*030□LSZ0^00					11	2.61							
TWCB227*030□CSZ0^00	220	30	3	16	42	2.53	36	-60	13	16	1,200	T2	B
TWCB227*030□LSZ0^00					21	1.27							
TWCD477*030□CSZ0^00	470	30	8	32	64	1.81	25	-65	20	25	1,500	T3	D
TWCD477*030□LSZ0^00					32	0.91							
TWCE567*030□CSZ0^00	560	30	9	36	55	1.3	20	-65	25	30	2,000	T4	E
TWCE567*030□LSZ0^00					27.5	0.65							
TWCA336*050□CSZ0^00	33	50	2	9	12.3	4.95	135	-29	10	12	700	T1	A
TWCA336*050□LSZ0^00					6.15	2.48							
TWCB127*050□CSZ0^00	120	50	4	24	22.5	2.49	49	-42	12	15	1,200	T2	B
TWCB127*050□LSZ0^00					11.3	1.25							
TWCD277*050□CSZ0^00	270	50	8	32	37	1.82	29	-46	20	25	1,450	T3	D
TWCD277*050□LSZ0^00					18.5	0.91							
TWCE337*050□CSZ0^00	330	50	9	36	38	1.53	22	-46	25	30	1,900	T4	E
TWCE337*050□LSZ0^00					19	0.77							
TWCA276*060□CSZ0^00	27	60	3	12	10.2	5.01	144	-24	10	12	700	T1	A
TWCA276*060□LSZ0^00					5.1	2.51							
TWCB107*060□CSZ0^00	100	60	4	20	19	2.52	54	-36	12	15	1,100	T2	B
TWCB107*060□LSZ0^00					9.5	1.26							
TWCD227*060□CSZ0^00	220	60	8	32	30	1.81	29	-40	16	20	1,400	T3	D
TWCD227*060□LSZ0^00					15	0.91							

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.

TWC SERIES

COTS-Plus – Conventional Wet Tantalum

STANDARD RATINGS & PART NUMBER REFERENCE

Part Number	Cap (µF) 25°C at 120Hz	DC Rated Voltage (V) at 85°C	DC Leakage (µA)		DF (Max)	ESR Max (Ohms) at 120Hz	Impedance max (Ohms) -55°C at 120Hz	Maximum Capacitance Change (%)			AC Ripple (mA rms) 85°C at 40kHz	Case Size	
			+25°C	+85°C & +125°C				-55°C	+85°C	+125°C		Standard	AVX
TWCE277*060□CSZ0^00	270	60	9	36	27	1.33	23	-45	20	25	1,850	T4	E
TWCE277*060□LSZ0^00					13.5	0.67							
TWCA226*075□CSZ0^00	22	75	3	12	8.5	5.13	157	-19	10	12	600	T1	A
TWCA226*075□LSZ0^00					4.25	2.57							
TWCB826*075□CSZ0^00	82	75	4	24	15.2	2.46	63	-30	12	15	1,000	T2	B
TWCB826*075□LSZ0^00					7.6	1.23							
TWCD187*075□CSZ0^00	180	75	9	36	24.4	2.23	30	-35	16	20	1,300	T3	D
TWCD187*075□LSZ0^00					12.2	0.9							
TWCE227*075□CSZ0^00	220	75	10	40	37	1.8	24	-40	20	25	1,800	T4	E
TWCE227*075□LSZ0^00					18.5	1.12							
TWCA106*100□CSZ0^00	10	100	3	12	4.5	5.97	200	-17	10	12	800	T1	A
TWCA106*100□LSZ0^00					2.25	2.99							
TWCB396*100□CSZ0^00	39	100	5	24	10.4	3.54	80	-20	12	15	1,300	T2	B
TWCB396*100□LSZ0^00					5.2	1.77							
TWCD686*100□CSZ0^00	68	100	10	40	11.3	2.21	40	-30	14	16	1,600	T3	D
TWCD686*100□LSZ0^00					5.65	1.11							
TWCE127*100□CSZ0^00	120	100	12	48	25	2.76	30	-35	15	17	2,000	T4	E
TWCE127*100□LSZ0^00					12.5	1.38							
TWCB276*125□CSZ0^00	27	125	5	24	7.2	3.54	90	-18	12	15	1,200	T2	B
TWCB276*125□LSZ0^00					3.6	1.77							
TWCD476*125□CSZ0^00	47	125	10	40	7.9	2.23	50	-26	14	16	1,500	T3	D
TWCD476*125□LSZ0^00					3.95	1.12							
TWCE826*125□CSZ0^00	82	125	12	48	17.4	2.82	32	-30	15	17	1,900	T4	E
TWCE826*125□LSZ0^00					8.7	1.41							

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: KYOCERA AVX reserves the rights to supply higher voltage rating in the same case size, to the same reliability standards.

TESTING

All TWC COTS-Plus product is tested using MIL-PRF-39006 test procedures.

Lot Conformance Testing*

Inspection	Sampling Procedure
Constant Voltage Conditioning DC Leakage Capacitance Dissipation Factor Seal, Condition A or D	100% Inspection
Visual Examination Material Marking Workmanship	13 Samples

*Additional testing and inspection is available, please contact the factory for details.