

TWC SERIES
COTS-Plus – Conventional Wet Tantalum

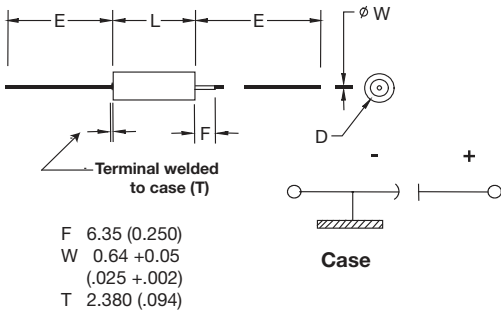


The TWC series represents a COTS-Plus version of conventional wet electrolytic tantalum capacitors. This data sheet incorporates all ratings available in MIL-PRF-39006 /22 /25 /30 and /31. Contact the factory about cap and voltage design possibilities beyond those contained in this datasheet.

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)

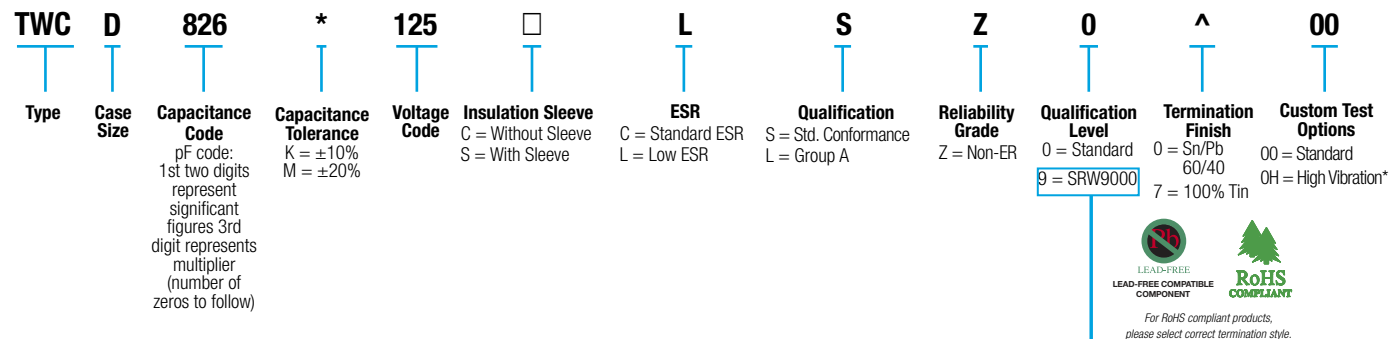
Voltage (DC)												
Rated Voltage: (V _r)	85°C	6	8	10	15	25	30	50	60	75	100	125
Derated Voltage: (V _d)	125°C	4	5	6	10	15	20	30	40	50	65	85
Surge Voltage: (V _s)	85°C	6.9	9.2	11.5	17.3	28.8	34.5	57.5	69	86.3	115	144

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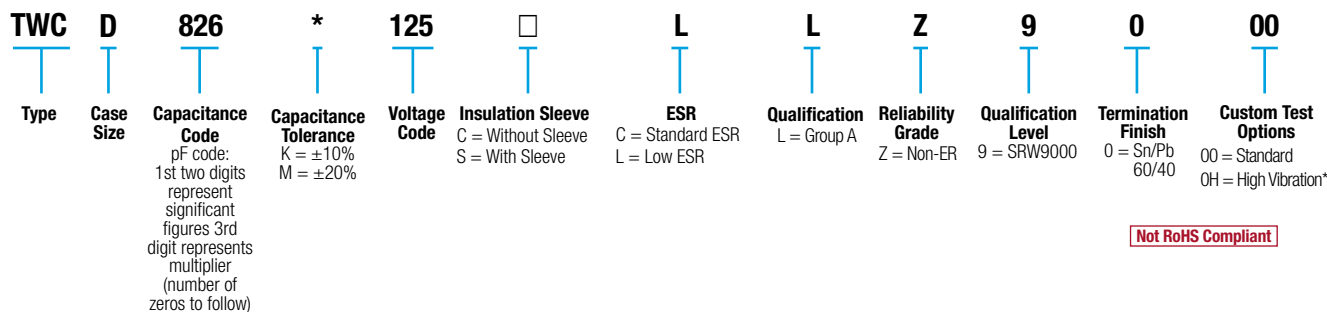
HOW TO ORDER

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		120Hz				800Hz				1kHz			
		≤55	85	105	125	≤55	85	105	125	≤55	85	105	125
% of 85°C 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	–
Voltage 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		10kHz				40kHz				100kHz			
		≤55	85	105	125	≤55	85	105	125	≤55	85	105	125
% of 85°C 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	–
Voltage 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.

Mouser Electronics

Authorized Distributor

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KYOCERA AVX:

TWCE307K030CCSZ0000	TWCB187J010CCSZ0000	TWCD256K125SLSZ0000	TWCE167K050SLSZ0000
TWCB396K060SCSZ0000	TWCB476M050CCSZ0000	TWCA686K006CLSZ0000	TWCE826K125SLSZ0000
TWCE687M025SCSZ0000	TWCB476K050CCSZ0000	TWCA226K075CLSZ0000	TWCA476K010CCSZ0000
TWCD566K075SLSZ0000	TWCD566K075SCSZ0000	TWCE826K125CCSZ0000	TWCD506K060SLSZ0000
TWCB686K030CCSZ0700	TWCD820uF K015SCSZ0000	TWCA106K050SCSZ0000	TWCD256K125SCSZ0000
TWCA156K030CLSZ0000	TWCA106K050CCSZ0000	TWCA276M060CCSZ0000	TWCB276K125CCSZ0000
TWCA106K100CCSZ0000	TWCA156K030CCSZ0000	TWCA685K075SCSZ0000	TWCB127M050SCSZ0000
TWCB187J010SLSZ0000	TWCB227K008SCSZ0000	TWCA106K025SLSZ0000	TWCB127K050CCSZ0000
TWCE167M050SCSZ0000	TWCD566K075CCSZ0000	TWCE337K050CCSZ0000	TWCE826M125SCSZ0000
TWCA805K030SLSZ0000	TWCE857K008SCSZ0000	TWCA156K030SCSZ0000	TWCD476M125CCSZ0000
TWCB826K075CCSZ0000	TWCD187K025SCSZ0000	TWCD506K060SCSZ0000	TWCA106K050CLSZ0000
TWCB686K030SCSZ0000	TWCD566K075CLSZ0000	TWCE127K100CCSZ0000	TWCB826K075CLSZ0000
TWCB107K060SCSZ0000	TWCE857K008SLSZ0000	TWCA805K030CLSZ0000	TWCD476M125SCSZ0000
TWCD187K075CCSZ0000	TWCD826K050SCSZ0000	TWCE866K100CLLZ0000	TWCD826M050SCSZ0000
TWCB107K060CCSZ0000	TWCE866K100SLSZ0000	TWCA686K006SCSZ0000	TWCD686K060SLSZ0000
TWCA226M075CCSZ0000	TWCB187J010CLSZ0000	TWCB336M075SLSZ0000	TWCE826M125CCSZ0000
TWCE167K050SCSZ0000	TWCA405K060CCSZ0000	TWCB686K030SLSZ0000	TWCD686K100CCSZ0000
TWCA106K100SLSZ0000	TWCB476K050SLSZ0000	TWCD826M050CCSZ0000	TWCB476K050SCSZ0000
TWCE307K030SLSZ0000	TWCA106K100SCSZ0000	TWCA686K006SLSZ0000	TWCE167K050CCSZ0000
TWCA805K030SCSZ0000	TWCE128K006SCSZ0000	TWCE227K075CCSZ0000	TWCA107K015SCSZ0000
TWCB686K030CCSZ0000	TWCE857K008CLSZ0000	TWCD256M125SCSZ0000	TWCA226K075SCSZ0000
TWCB107K025SCSZ0000	TWCD686K100SCSZ0000	TWCE228M006SCSZ0000	TWCA805K030CCSZ0000
TWCB226K100SCSZ0000	TWCA156K030SLSZ0000	TWCA686K006CCSZ0000	TWCE307K030CLSZ0000
TWCB826K075SCSZ0000	TWCB476K050CLSZ0000	TWCA106K025SCSZ0000	TWCE857K008CCSZ0000
TWCB276K125SCSZ0000	TWCE158K010SLSZ0000	TWCD826K050CCSZ0000	TWCA226K025CCSZ0000