

AVX Electrolytic Tantalum Capacitors



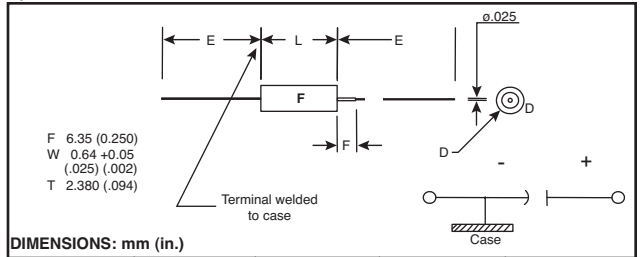
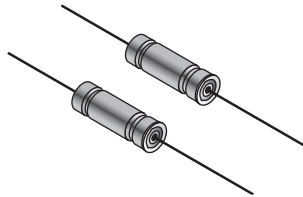
TWA WET ELECTROLYTIC TANTALUM CAPACITOR

The TWA series is an axial leaded wet electrolytic tantalum capacitor and represents a new level of high CV (capacitance / voltage) previously unavailable in this technology. TWA incorporates a novel, very high capacitance cathode system that allows for higher CV designs, well beyond values specified in the Mil-PRF-39006 drawing. TWA products are listed on DSCC 93026 Rev. P, which includes new high capacitance / voltage ratings.

This design includes a welded tantalum can and header assembly that provides a hermetic seal to withstand the harsh shock and vibration requirements of 39006.

Customized capacitance and voltage packages are possible and welcomed. Contact Mouser Electronics about design possibilities beyond those contained in this datasheet.

This product is RoHS compliant.



DIMENSIONS: mm (in.)

Case Size		L	D	D1	E
DSCC	AVX	+0.79(.031) 0.41(.016)	+0.41(.016)		±6.35(.250)
T1	A	11.51 (.453)	4.78 (.188)	5.56 (.219)	38.10 (1.500)
T2	B	16.28 (.641)	7.14 (.281)	7.92 (.312)	57.15 (2.250)
T3	D	19.46 (.766)	9.52 (.375)	10.31 (.406)	57.15 (2.250)
T4	E	26.97 (1.062)	9.52 (.375)	10.31 (.406)	57.15 (2.250)

MOUSER STOCK NO.	AVX Part No.	Volt	Value (µF)	Tol ± %	Case Size	ESR max (Ω) @ 120kHz	DC leakage max (µA) +25°C	AC Ripple (mA rms) 85°C at 40kHz	Price Each			
									1	5	20	40
581-TWAB567K25CBSZ	TWAB567K025CBSZ0000	25	560	10	B	0.83	2	2100	97.68	91.82	87.61	82.49
581-TWAD128K25CBSZ	TWAD128K025CBSZ0000	25	1200	10	D	0.65	5	2600	90.56	80.50	72.45	68.43
581-TWAE188K25CBSZ	TWAE188K025CBSZ0000	25	1800	10	E	0.5	6	3100	122.63	109.00	98.10	92.65
581-TWAE228K25CBSZ	TWAE228K025CBSZ0000	25	2200	10	E	0.5	10	3200	122.63	109.00	98.10	92.65
581-TWAB477K30CBSZ	TWAB477K030CBSZ0000	30	470	10	B	0.85	2	1800	97.68	91.82	87.61	82.49
581-TWAD108K30CBSZ	TWAD108K030CBSZ0000	30	1000	10	D	0.7	7	2500	90.56	80.50	72.45	68.43
581-TWAE158K30CBSZ	TWAE158K030CBSZ0000	30	1500	10	E	0.6	12	3000	122.63	109.00	98.10	92.65
581-TWAA686K50CBSZ	TWAA686K050CBSZ0000	50	68	10	A	1.5	1	1050	80.81	75.96	72.47	68.24
581-TWAB227K50CBSZ	TWAB227K050CBSZ0000	50	220	10	B	0.9	2	1800	97.68	91.82	87.61	82.49
581-TWAD477K50CBSZ	TWAD477K050CBSZ0000	50	470	10	D	0.75	3	2100	90.56	80.50	72.45	68.43
581-TWAE687K50CBSZ	TWAE687K050CBSZ0000	50	680	10	E	0.7	5	2750	122.63	109.00	98.10	92.65
581-TWAA476K60CBSZ	TWAA476K060CBSZ0000	60	47	10	A	2	1	1050	80.81	75.96	72.47	68.24
581-TWAB157K60CBSZ	TWAB157K060CBSZ0000	60	150	10	B	1.1	2	1650	97.68	91.82	87.61	82.49
581-TWAD397K60CBSZ	TWAD397K060CBSZ0000	60	390	10	D	0.9	3	2100	90.56	80.50	72.45	68.43
581-TWAE567K60CBSZ	TWAE567K060CBSZ0000	60	560	10	E	0.8	5	2750	122.63	109.00	98.10	92.65
581-TWAE108K60CBSZ	TWAE108K060CBSZ0000	60	1000	10	E	1	12	3200	122.63	109.00	98.10	92.65
581-TWAA336K75CBSZ	TWAA336K075CBSZ0000	75	33	10	A	2.5	1	1050	80.81	75.96	72.47	68.24
581-TWAB117K75CBSZ	TWAB117K075CBSZ0000	75	110	10	B	1.3	2	1650	97.68	91.82	87.61	82.49
581-TWAD337K75CBSZ	TWAD337K075CBSZ0000	75	330	10	D	1	3	2100	90.56	80.50	72.45	68.43
581-TWAE477K75CBSZ	TWAE477K075CBSZ0000	75	470	10	E	0.9	5	2750	122.63	109.00	98.10	92.65
581-TWAA156K100CBSZ	TWAA156K100CBSZ0000	100	15	10	A	3.5	1	1050	80.81	75.96	72.47	68.24
581-TWAB686K100CBSZ	TWAB686K100CBSZ0000	100	68	10	B	2.1	2	1650	97.68	91.82	87.61	82.49
581-TWAD157K100CBSZ	TWAD157K100CBSZ0000	100	150	10	D	1.6	3	2100	90.56	80.50	72.45	68.43
581-TWAE227K100CBSZ	TWAE227K100CBSZ0000	100	220	10	E	1.2	5	2750	122.63	109.00	98.10	92.65
581-TWAB476K125CBSZ	TWAB476K125CBSZ0000	125	47	10	B	2.3	2	1650	97.68	91.82	87.61	82.49
581-TWAD107K125CBSZ	TWAD107K125CBSZ0000	125	100	10	D	1.8	3	2100	90.56	80.50	72.45	68.43
581-TWAE157K125CBSZ	TWAE157K125CBSZ0000	125	150	10	E	1.6	5	2750	122.63	109.00	98.10	92.65

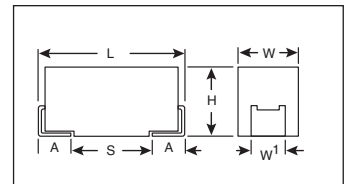
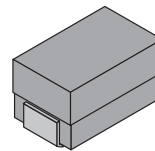


TAW SERIES TANTALUM SOLID ELECTROLYTIC FUSED CAPACITORS

TAW Fused Tantalum Capacitors offer protection from possible damaging short circuit failure modes. This is accomplished with an internal fuse using thin film technology that is in series with the capacitor. The AVX fused tantalum offers lower ESR limits than competitive fused tantalum capacitors.

Applications:

- Industrial: Failure intolerant systems
- Computers
- Server backplanes
- Highend computing and decoupling
- Parallel capacitor banks that will benefit from redundancy
- All Markets
- Uninterruptible power supplies
- Lower ESR than competing product
- Higher ripple current capability



Specifications:

- Fuse Off: I > 4A in 1s, insulating resistance > 10MΩ
- Fuse Continuous Current Capacity: 0.75A
- Temperature Range: -55°C to + 125°C
- Reliability: 1% per 1000 hours at 85°C, Vr with 0.1ΩV series impedance, 60% confidence level

Features:

- Molded Case
- Internal thin-film fuse
- Fail safe operation while maintaining low ESR
- Fuse characteristics can be specified
- Lower ESR and faster actuation than competition
- Compliant Terminations
- RoHS compliant materials and finishes
- Compatible with lead-free solder processes
- Stable lead-times



DIMENSIONS: mm (in.)

Code	EIA Code	L±0.20 (0.008)	W+0.20 (0.008) -0.10(0.004)	H±0.20 (0.008) -0.10(0.004)	W1 ±0.20(0.008)	A+0.30 (0.012) -0.20(0.008)	S Min.
B	3528-21	3.50(0.138)	2.80(0.110)	1.90(0.075)	2.20(0.087)	0.80(0.031)	1.40(0.055)
C	6032-28	6.00 (0.236)	3.20 (0.126)	2.60 (0.102)	2.20 (0.087)	1.30 (0.051)	2.90 (0.114)
D	7343-31	7.30 (0.287)	4.30 (0.169)	2.90 (0.114)	2.40 (0.094)	1.30 (0.051)	4.40 (0.173)

MOUSER STOCK NO.	AVX Part No.	Volt	Value (µF)	Tol ± %	DCL (µA) Max.	ESR max (mohms)@ 100kHz	Price Each					
							1	10	100	500 Piece Reels		
									500	1000		
581-TAWD476K010R0500	TAWD476K010R0500	10	47	10	4.7	500	3.45	3.00	2.62	1.25	1.22	
581-TAWD476M010R0500	TAWD476M010R0500	10	47	20	4.7	500	3.15	2.74	2.39	1.14	1.11	
581-TAWD107K010R0500	TAWD107K010R0500	10	100	10	10	500	3.45	3.00	2.62	1.25	1.22	
581-TAWD107M010R0500	TAWD107M010R0500	10	100	20	10	500	3.15	2.74	2.39	1.14	1.11	
581-TAWD336K016R0600	TAWD336K016R0600	16	33	10	5.3	600	3.45	3.00	2.62	1.25	1.22	
581-TAWD336M016R0600	TAWD336M016R0600	16	33	20	5.3	600	3.15	2.74	2.39	1.14	1.11	
581-TAWD106K025R0600	TAWD106K025R0600	25	10	10	2.5	600	3.70	3.21	2.81	1.34	1.31	
581-TAWD106M025R0600	TAWD106M025R0600	25	10	20	2.5	600	3.35	2.91	2.54	1.21	1.18	
581-TAWD685K050R0700	TAWD685K050R0700	50	6.8	10	3.4	700	5.60	4.87	4.25	2.03	1.98	
581-TAWD685M050R0700	TAWD685M050R0700	50	6.8	20	3.4	700	5.10	4.43	3.87	1.85	1.80	



NEW FROM AVX

Wet Tantalum Caps

AVX

NEW FROM AVX

NEW FROM AVX

NEW FROM AVX