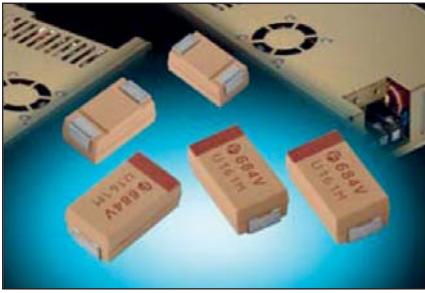


TAW Series

Tantalum Solid Electrolytic Fused Capacitors



- Thin film fuse connected in series with capacitor
- Protection from possible damaging from high DC leakage current (short circuit failure)
- CV range: 6.8-100 μ F / 10-50V
- Application: servers

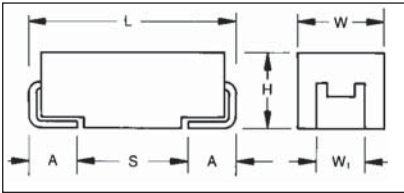


LEAD-FREE

LEAD-FREE COMPATIBLE
COMPONENT



RoHS
COMPLIANT



For part marking see page 169

CASE DIMENSIONS: millimeters (inches)

Code	EIA Code	EIA Metric	L $\pm$ 0.20 (0.008)	W $\pm$ 0.20 (0.008) -0.10 (0.004)	H $\pm$ 0.20 (0.008) -0.10 (0.004)	W $\pm$ 0.20 (0.008)	A $\pm$ 0.30 (0.012) -0.20 (0.008)	S Min.
D	2917	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)

W₁ dimension applies to the termination width for A dimensional area only.

HOW TO ORDER

TAW

Type

D

Case Size
See table above

476

Capacitance Code
pF code: 1st two digits represent significant figures
3rd digit represents multiplier (number of zeros to follow)

Tolerance
K= $\pm$ 10%
M= $\pm$ 20%

010

Rated DC Voltage
010=10Vdc
016=16Vdc
020=20Vdc
025=25Vdc
035=35Vdc
050=50Vdc

R

Packaging
R = Pure Tin 7" Reel
S = Pure Tin 13" Reel

0500

ESR in m Ω

TECHNICAL SPECIFICATIONS

Technical Data:

All technical data relate to an ambient temperature of +25°C

Capacitance Range: 6.8 μ F to 100 μ F

Capacitance Tolerance: $\pm$ 10%; $\pm$ 20%

Rated Voltage (V _R)	$\leq$ +85°C:	10	16	20	25	35	50	
Category Voltage (V _C)	$\leq$ +125°C:	7	10	13	17	23	33	
Surge Voltage (V _S)	$\leq$ +85°C:	13	20	26	32	46	65	
Surge Voltage (V _S)	$\leq$ +125°C:	8	13	16	20	28	40	

Fuse Off I > 4A in 1s, insulating resistance > 10M Ω

Fuse Continuous Current Capability 0.75A

Temperature Range: -55°C to +125°C

Reliability: 1% per 1000 hours at 85°C, V_r with 0.1 Ω /V series impedance, 60% confidence level

Tantalum Solid Electrolytic Fused Capacitors

CAPACITANCE AND RATED VOLTAGE RANGE (LETTER DENOTES CASE SIZE)

Capacitance		Rated Voltage DC (V_R) to 85°C						
μF	Code	6.3V (J)	10V (A)	16V (C)	20V (D)	25V (E)	35V (V)	50V (T)
1.0	105							
2.2	225							
4.7	475							
6.8	685						D(600)	D(700)
10	106					D(600)	D(600)	D(700)
22	226				D(500)	D(600)		
33	336			D(600)	D(500)			
47	476		D(500)	D(800)				
100	107		D(500)					

Available Ratings (ESR ratings in mOhms in brackets)

Engineering samples - please contact manufacturer

*Codes under development – subject to change

Note: Voltage ratings are minimum values. AVX reserves the right to supply higher ratings in the same case size, to the same reliability standards.

RATINGS & PART NUMBER REFERENCE

AVX Part No.	Case Size	Capacitance (μF)	Rated Voltage (V)	DCL (μA) Max.	DF % Max.	ESR Max. (mΩ) @100kHz	MSL	100kHz RMS Current (mA)			100kHz RMS Voltage (mV)		
								25°C	85°C	125°C	25°C	85°C	125°C
10 Volt @ 85°C (7 Volt @ 125°C)													
TAWD476*010#0500	D	47	10	4.7	6	500	1	548	493	219	274	246	110
TAWD107*010#0500	D	100	10	10	8	500	1	548	493	219	274	246	110
16 Volt @ 85°C (10 Volt @ 125°C)													
TAWD336*016#0600	D	33	16	5.3	6	600	1	500	450	200	300	270	120
TAWD476*016#0800	D	47	16	7.5	7	800	1	433	390	173	346	312	139
20 Volt @ 85°C (13 Volt @ 125°C)													
TAWD226*020#0500	D	22	20	4.4	6	500	1	548	493	219	274	246	110
TAWD336*020#0500	D	33	20	6.6	6	500	1	548	493	219	274	246	110
25 Volt @ 85°C (17 Volt @ 125°C)													
TAWD106*025#0600	D	10	25	2.5	6	600	1	500	450	200	300	270	120
TAWD226*025#0600	D	22	25	5.5	6	600	1	500	450	200	300	270	120
35 Volt @ 85°C (23 Volt @ 125°C)													
TAWD685*035#0600	D	6.8	35	2.4	6	600	1	500	450	200	300	270	120
TAWD106*035#0600	D	10	35	3.5	6	600	1	500	450	200	300	270	120
50 Volt @ 85°C (33 Volt @ 125°C)													
TAWD685*050#0700	D	6.8	50	3.4	6	700	1	463	417	185	324	292	130
TAWD106*050#0700	D	10	50	5	6	700	1	463	417	185	324	292	130

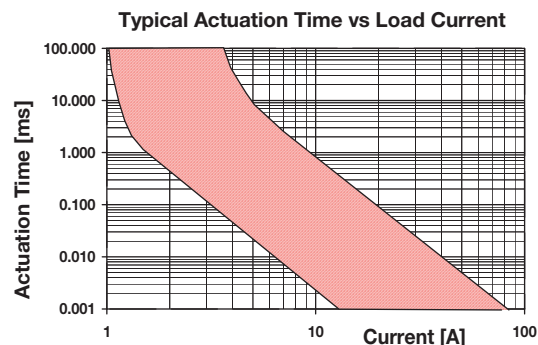
Moisture Sensitivity Level (MSL) is defined according to J-STD-020.

All technical data relates to an ambient temperature of +25°C. Capacitance and DF are measured at 120Hz, 0.5V RMS with a maximum DC bias of 2.2 volts. DCL is measured at rated voltage after 5 minutes.

For typical weight and composition see page 162.

NOTE: AVX reserves the right to supply a higher voltage rating or tighter tolerance part in the same case size, to the same reliability standards.

TYPICAL FUSE ACTUATION



Note: for a different fuse characteristic requirements please contact manufacturer