

# AVX Tantalum Solid Electrolytic Chip Capacitors



RoHS Compliant **This product is RoHS compliant.**

Code	EIA Code	DIMENSIONS: mm (in.)								
		L ±0.20 (0.008)	L +0.50 (0.02) -0.0 (0.0)	W +0.20 (0.008) -0.10 (0.004)	W +0.50 (0.02) -0.0 (0.0)	H +0.20 (0.008) -0.10 (0.004)	H Max.	*W1 ±0.20 (0.008)	A +0.30 (0.012) -0.20 (0.008)	S Min.
6	1575-20	-	14.5 (0.571)	-	7.50 (0.295)	-	2.00 (0.079)	5.50 (0.217)	2.40 (0.094)	-
A	3216-18	3.20 (0.126)	-	1.60 (0.063)	-	1.60 (0.063)	-	1.20 (0.047)	0.80 (0.031)	1.80 (0.071)
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)
R	2012-12	2.05 (0.081)	-	1.30 (0.051)	-	1.20 (0.047) max	-	1.0±0.1 0 (0.039±0.004)	0.50 (0.020)	0.85 (0.033)
S	3216-12	3.50 (0.138)	-	1.60 (0.063)	-	1.20 (0.047) max	-	1.20 (0.047)	0.80 (0.031)	-
T	3528-12	3.50 (0.138)	-	2.80 (0.110)	-	1.20 (0.047) max	-	2.20 (0.087)	0.80 (0.031)	2.00 (0.079)

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

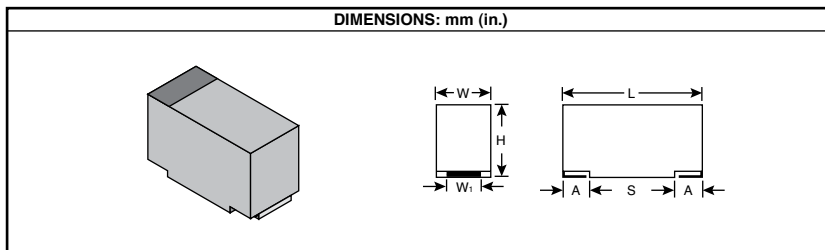
## AVX TLN UNDERTAB SERIES AND TLN PULSECAP™ SERIES

### Common Specifications:

- All technical data relate to an ambient temperature of +25°C
- Capacitance Tolerance: ±20%
- Temperature Range: -55°C to +125°C with category voltage
- Reliability: 0.2% per 1000 hrs @ 85°C, 0.5xV<sub>R</sub> with 0.1Ω/V series impedance, 60% confidence level
- Lead-Free Compatible Component
- Environmentally Friendly Component

### Applications:

- PCMCIA/USB wireless express cards
- Mobiles
- MP3



### TLN Undertab Series Features:

- Undertab terminations layout:
  - High Volumetric Efficiency
  - High PCB assembly density
  - High capacitance in smaller dimensions
- 3x reflow 260°C compatible



### TLN PulseCap™ Series Features:

- Large case size for maximum capacitance
- 3x reflow 260°C compatible
- Capacitance up to 3300µF
- Low profile solution



MOUSER STOCK NO.	AVX Part No.	Volt	Value (µF)	Case Size	Tol.	Max. (m Ω) @100kHz	Price Each				
							1	50	100	500	1000
TLN Undertab Series											
581-TLNS227M004R3000	TLNS227M004R3000	4	220	S	20%	3000					
TLN PulseCap™ Series											
581-TLN6228M006R0055	TLN6228M006R0055	6	2200	6	20%	55					



## AVX TCJ SERIES - CAPACITOR WITH CONDUCTIVE POLYMER ELECTRODE

The TCJ Series of tantalum capacitors with a conductive polymer electrode offers lower ESR, safer non-ignition failure mode, and better capacitance retention compared to the conventional MnO<sub>2</sub> electrode capacitors. The TCJ series is suitable for power management systems with operating temperatures up to 125°C. In addition, the TCJ series complies with RoHS requirements and it is an environmentally friendly component ready for lead-free assembly systems up to 3x reflow with 260°C peak temperature.

### Specifications:

- All technical data relate to an ambient temperature of +25°C
- Capacitance Range: 4.7µF - 150µF
- Capacitance Tolerance: ±20%
- Leakage Current DCL: 0.1CV
- Temperature Range: -55°C to +125°C
- Reliability: 1% per 1000 hrs @ 85°C, V<sub>R</sub> with 0.1Ω/V<sub>R</sub> series impedance, 60% confidence level
- Lead-Free Compatible Component
- Environmentally Friendly Component

MOUSER STOCK NO.	AVX Part No.	Capacitance Value (µF)	Case Size	ESR (mΩ) @ 100 kHz	Price Each			Tape and Reel	
					1	10	100	Qty per Reel	Price Each
<b>2.5 Volt @ 85°C (1.7 Volt Rating @ 125°C)</b> • Surge Voltage: 3.3V @ 85°C, 2.0V @ 125°C									
581-TCJA686M2R250	TCJA686M002R0250	68	A	250					2000
581-TCJA107M2R200	TCJA107M002R0200	100	A	200					2000
581-TCJB107M2R70	TCJB107M002R0070	100	B	70					2000
581-TCJB157M2R70	TCJB157M002R0070	150	B	70					2000
<b>4 Volt @ 85°C (2.7 Volt Rating @ 125°C)</b> • Surge Voltage: 5.2V @ 85°C, 3.4V @ 125°C									
581-TCJA156M4R300	TCJA156M004R0300	15	A	300					2000
581-TCJA226M4R300	TCJA226M004R0300	22	A	300					2000
581-TCJA336M4R300	TCJA336M004R0300	33	A	300					2000
581-TCJA476M4R200	TCJA476M004R0200	47	A	200					2000
581-TCJT476M4R80	TCJT476M004R0080	47	T	80					2500
581-TCJA686M4R250	TCJA686M004R0250	68	A	250					2000
581-TCJB686M4R70	TCJB686M004R0070	68	B	70					2000
581-TCJT686M4R80	TCJT686M004R0080	68	T	80					2500
581-TCJA107M4R200	TCJA107M004R0200	100	A	200					2000
581-TCJB107M4R70	TCJB107M004R0070	100	B	70					2000
581-TCJT107M4R150	TCJT107M004R0150	100	T	150					2500
581-TCJG107M4R0300	TCJG-107M004R0300	100	G	300					2500
581-TCJB157M4R70	TCJB157M004R0070	150	B	70					2000
<b>6.3 Volt @ 85°C (4 Volt Rating @ 125°C)</b> • Surge Voltage: 8V @ 85°C, 5.0V @ 125°C									
581-TCJA106M6R300	TCJA106M006R0300	10	A	300					2000
581-TCJR106M6R500	TCJR106M006R0500	10	R	500					2500
581-TCJA156M6R300	TCJA156M006R0300	15	A	300					2000
581-TCJA226M6R300	TCJA226M006R0300	22	A	300					2000
581-TCJT226M6R150	TCJT226M006R0150	22	T	150					2500
581-TCJA336M6R200	TCJA336M006R0200	33	A	200					2000
581-TCJB336M6R200	TCJB336M006R0200	33	B	200					2000
581-TCJT336M6R150	TCJT336M006R0150	33	T	150					2500
581-TCJA476M6R200	TCJA476M006R0200	47	A	200					2000
581-TCJB476M6R70	TCJB476M006R0070	47	B	70					2000
581-TCJT476M6R80	TCJT476M006R0080	47	T	80					2500
581-TCJB686M6R70	TCJB686M006R0070	68	B	70					2000
581-TCJC686M6R100	TCJC686M006R0100	68	C	100					500
581-TCJB107M6R70	TCJB107M006R0070	100	B	70					2000
<b>10 Volt @ 85°C (7 Volt Rating @ 125°C)</b> • Surge Voltage: 13V @ 85°C, 8V @ 125°C									
581-TCJR475M10R500	TCJR475M010R0500	4.7	R	500					2500
581-TCJA106M10R300	TCJA106M010R0300	10	A	300					2000
581-TCJA156M10R200	TCJA156M010R0200	15	A	200					2000
581-TCJB226M10R300	TCJB226M010R0300	22	B	300					2000
581-TCJT226M10R150	TCJT226M010R0150	22	T	150					2500
581-TCJB336M10R200	TCJB336M010R0200	33	B	200					2000
581-TCJC336M10R100	TCJC336M010R0100	33	C	100					500
581-TCJT336M10R150	TCJT336M010R0150	33	T	150					2500
581-TCJB476M10R70	TCJB476M010R0070	47	B	70					2000
581-TCJC476M10R100	TCJC476M010R0100	47	C	100					500
<b>16 Volt @ 85°C (10 Volt Rating @ 125°C)</b> • Surge Voltage: 20V @ 85°C, 13V @ 125°C									
581-TCJA685M16R200	TCJA685M016R0200	6.8	A	200					2000
581-TCJA106M16R200	TCJA106M016R0200	10	A	200					2000
581-TCJT106M16R150	TCJT106M016R0150	10	T	150					2500
581-TCJB156M16R150	TCJB156M016R0150	15	B	150					2000
581-TCJB226M16R150	TCJB226M016R0150	22	B	150					2000

### Markings

Cap. Value in pF  
106=10µF

Rated Voltage  
A=10V

Year Code  
T=2005

Week Number

2 Digit Batch ID

### DIMENSIONS: mm (in.)