

TLN PulseCap™ Series



Tantalum Solid Electrolytic Chip Capacitors Undertab Series



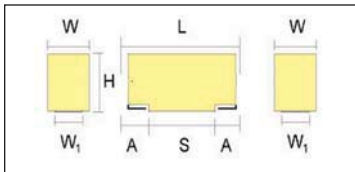
- Large case size for maximum capacitance
- 3x reflow 260°C compatible
- Low profile solution
- Consumer applications (e.g. PCMCIA/USB wireless express cards etc.)
- CV range: 1000-3300µF / 4-10V
- 2 case sizes available



LEAD-FREE
LEAD-FREE COMPATIBLE
COMPONENT



RoHS
COMPLIANT



For part marking see page 130

CASE DIMENSIONS: millimeters (inches)

Code	EIA Code	EIA Metric	L+0.5 (0.02) -0.0 (0.0)	W+0.20 (0.008) -0.10 (0.004)	H max.	W ₁ ±0.20 (0.008)	A+0.30 (0.012) -0.20 (0.008)
4	2924	7361-20	7.3 (0.287)	6.1 (0.240)	2.0 (0.079)	4.75 (0.187)	2.0 (0.079)
6	0630	1575-20	14.5 (0.571)	7.5 ^{+0.50} -0.00 (0.295 ^{+0.020} -0.00)	2.0 (0.079)	5.5 (0.217)	2.4 (0.094)

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

HOW TO ORDER

TLN



Type

6



Case Size
See table above

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Capacitance Code
pF code: 1st two digits represent significant figures, 3rd digit represents multiplier

M



Tolerance
M = ±20%

006



Rated DC Voltage
004 = 4Vdc
006 = 6.3Vdc
010 = 10Vdc

R



Packaging
R = Lead Free 7" Reel

0055



ESR in mΩ

TECHNICAL SPECIFICATIONS

Technical Data:	All technical data relate to an ambient temperature of +25°C				
Capacitance Range:	680 µF to 3300 µF				
Capacitance Tolerance:	±20%				
Leakage Current DCL:	0.01CV				
Rated Voltage (V _R)	-55°C ≤ +40°C:	4	6.3	10	
Category Voltage (V _C)	at 85°C:	2	3.15	5	
Category Voltage (V _C)	at 125°C:	0.8	1.26	2	
Temperature Range:	-55°C to +125°C with category voltage				
Reliability:	0.2% per 1000 hours at 85°C, 0.5xV _R with 0.1Ω/V series impedance with 60% confidence level				

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CAPACITANCE AND RATED VOLTAGE, VR (VOLTAGE CODE) RANGE (FIGURE DENOTES CASE SIZE)

Capacitance		Voltage Rating DC (V _R) to 85°C		
µF	Code	4V (G)	6.3V (J)	10V (A)
680	687			4(200)*
1000	108			4(100)/6(55)
1500	158		4(100)	6(55)
2200	228		6(55)	
3300	338	6(55)	6*	

Available Codes (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	Cap (µF)	Rated Voltage (V)	DCL (µA) Max.	ESR Max. (mΩ) @100kHz	MSL	100kHz Ripple Current (mA)			100kHz Ripple Voltage (mV)			
							25°C	85°C	125°C	25°C	85°C	125°C	
4 Volt @ 40°C (2 Volt @ 85°C, 0.8 Volt @ 125°C)													
TLN6338M004#0055	6	3300	4	132	55	3	2045	1840	818	112	101	45	
6.3 Volt @ 40°C (3.15 Volt @ 85°C, 1.26 Volt @ 125°C)													
TLN4158M006#0100	4	1500	6.3	90	100	3	1285	1156	514	128	116	51	
TLN6228M006#0055	6	2200	6.3	132	55	3	2045	1840	818	112	101	45	
10 Volt @ 40°C (5 Volt @ 85°C, 2 Volt @ 125°C)													
TLN4108M010#0100	4	1000	10	100	100	3	1285	1156	514	128	116	51	
TLN6108M010#0055	6	1000	10	100	55	3	2045	1840	818	112	101	45	
TLN6158M010#0055	6	1500	10	150	55	3	2045	1840	818	112	101	45	

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.

ESR allowed to move up to 1.25 times catalogue limit post mounting

DCL allowed to move up to 2.00 times catalogue limit post mounting

For typical weight and composition see page 123.

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.

