

# TLN PulseCap™ Series



## Tantalum Solid Electrolytic Chip Capacitors



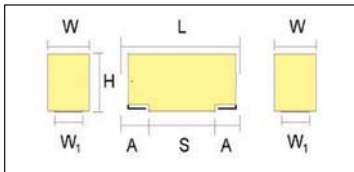
- Large case size for maximum capacitance
- 3x reflow 260°C compatible
- Low profile solution
- Consumer applications (e.g. PCMCIA/USB wireless express cards etc.)
- CV range: 1000-3300µF / 4-10V
- 2 case sizes available



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/-0.0 (+0.02/-0.0)	W+0.5/-0.0 (+0.02/-0.0)	H max.	W <sub>1</sub> ±0.20 (0.008)	A+0.30/-0.20 (0.008/-0.012)
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 (0.295)	2.0 (0.079)	5.5 (0.217)	2.4 (0.094)

W<sub>1</sub> dimension applies to the termination width for A dimensional area only.

### HOW TO ORDER

**TLN**



Type

**6**



Case Size  
See table above

**228**



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 = Standard

**0055**



ESR in mΩ

### TECHNICAL SPECIFICATIONS

Technical Data:	All technical data relate to an ambient temperature of +25°C				
Capacitance Range:	1000 µF to 3300 µF				
Capacitance Tolerance:	±20%				
Leakage Current DCL:	0.01CV				
Rated Voltage (V <sub>R</sub> )	-55°C ≤ +40°C:	4	6.3	10	
Category Voltage (V <sub>C</sub> )	at 85°C:	2	3.15	5	
Category Voltage (V <sub>C</sub> )	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 <sub>R</sub> with 0.1Ω/V series impedance with 60% confidence level				
	Meets requirements of AEC-Q200				

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

Capacitance		Voltage Rating DC (V <sub>R</sub> ) to 85°C		
µF	Code	4V (G)	6.3V (J)	10V (A)
1000	108			6(55)
1500	158		4(100)	6(55)
2200	228		6(55)	
3300	338	6(55)		

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	Capacitance (µF)	Rated Voltage (V)	DCL (µA) Max.	ESR Max. (mΩ) @100kHz	100kHz Ripple Current (mA)			100kHz Ripple Voltage (mV)		
						25°C	85°C	125°C	25°C	85°C	125°C
<b>4 Volt @ 40°C (2 Volt @ 85°C, 0.8 Volt @ 125°C)</b>											
TLN6338M004#0055	6	3300	4	132	55	2045	1840	818	112	101	45
<b>6.3 Volt @ 40°C (3.15 Volt @ 85°C, 1.26 Volt @ 125°C)</b>											
TLN4158M006#0100	4	1500	6.3	94.5	100	1285	1156	514	128	116	51
TLN6228M006#0055	6	2200	6.3	132	55	2045	1840	818	112	101	45
<b>10 Volt @ 40°C (5 Volt @ 85°C, 2 Volt @ 125°C)</b>											
TLN6108M010#0055	6	1000	10	100	55	2045	1840	818	112	101	45
TLN6158M010#0055	6	1500	10	150	55	2045	1840	818	112	101	45

# Insert R for standard packaging

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

TLN PulseCap™ series is MSL level 3 device according to J-STD-020C.

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.

**NOTE: AVX reserves the rights to supply higher voltage rating in the same case size, to the same reliability standards.**

