

TLN PulseCap™ Series



Tantalum Solid Electrolytic Chip Capacitors



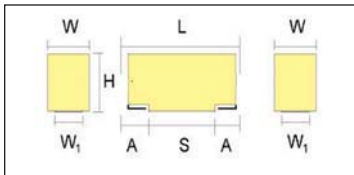
- Large case size for maximum capacitance
- 3x reflow 260°C compatible
- Low profile solution
- Consumer applications
(e.g. PCMCIA/USB wireless express cards etc.)
- CV range: 1000-3300µF / 4-10V
- 2 case sizes available



LEAD-FREE
LEAD-FREE COMPATIBLE
COMPONENT



RoHS
COMPLIANT



For part marking see page 132

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 ₁ ±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)

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 = 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_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 (LETTER DENOTES CASE SIZE)

Capacitance		Voltage Rating DC (V _R) to 85°C		
μF	Code	4V (G)	6.3V (J)	10V (A)
1000	108			4(100)/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
4 Volt @ 40°C (2 Volt @ 85°C, 0.8 Volt @ 125°C)											
TLN6338M004#0055	6	3300	4	132	55	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	1285	1156	514	128	116	51
TLN6228M006#0055	6	2200	6.3	132	55	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	1285	1156	514	128	116	51
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.

