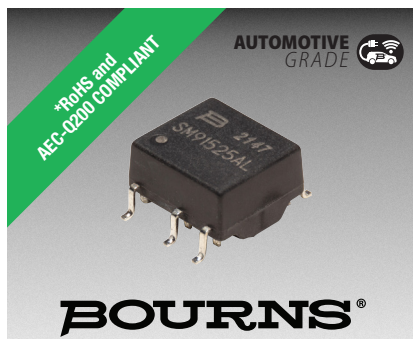




Features

- Pin auto-termination
- Working voltage: 1000 VDC
- Hi-Pot: 4300 VDC
- Single channel with integrated choke
- Developed for use with TI BQ79616
- Functional insulation
- AEC-Q200 compliant
- RoHS compliant*

SM91525AL BMS Transformer

Additional Information

Click these links for more information:



General Specifications

OCL (100 kHz / 0.1 V, -40 °C ~ +125 °C)
 300 μ H ~ 1000 μ H
 Leakage Inductance (100 kHz/0.1 V)
 0.5 μ H max.
 DCR
 Transformer Side 0.9 Ω max.
 CM Choke Side 1.1 Ω max.
 Turns Ratio 1 : 1 $\pm$ 2 %
 Insertion Loss:
 1-80 MHz -1.0 dB max.
 125 MHz -3.0 dB max.
 Return Loss (Z out = 100 Ω)
 1-30 MHz -16 dB min.
 30-60 MHz -12 dB min.
 60-80 MHz -10 dB min.
 Hi-pot (1 mA, 60 S) 4300 VDC
 Working Voltage 1000 VDC
 Operation Temperature
 -40 °C to +125 °C
 Storage Temperature Range
 -50 °C to +125 °C
 Moisture Sensitivity Level 1
 ESD Classification (HBM) N/A

Packaging Specification

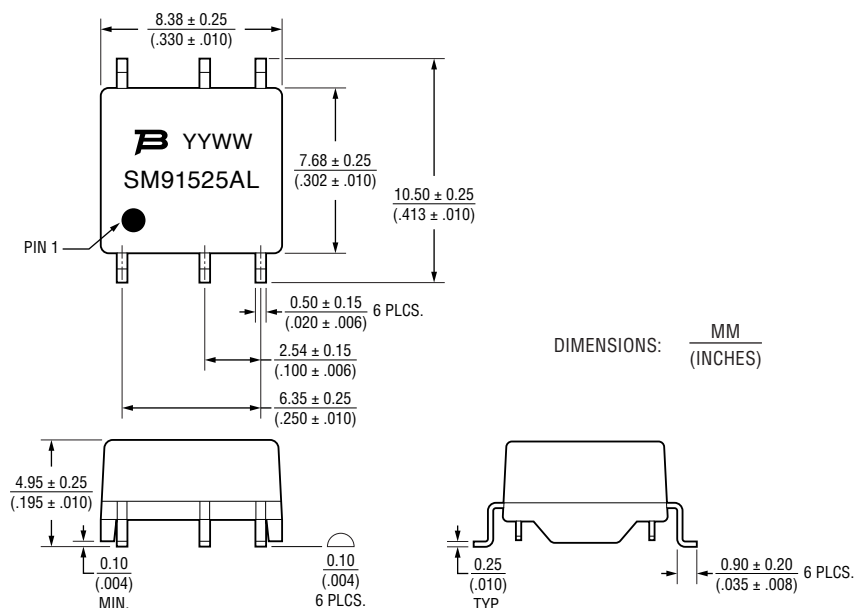
Tape & Reel 700 pcs. per 13-inch reel

How To Order

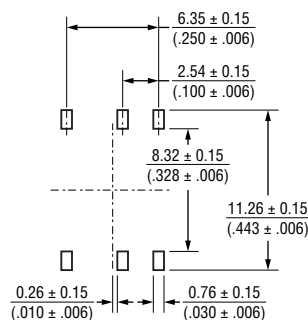
SM91525 A L - E

Model _____
 AEC-Q200 Compliant _____
 RoHS Compliancy Designator _____
 Packaging _____
 E = 700 pcs. per 13-inch Reel
 5 Reels per Box

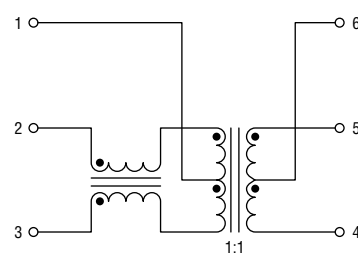
Product Dimensions



Recommended Layout



Electrical Schematic



WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

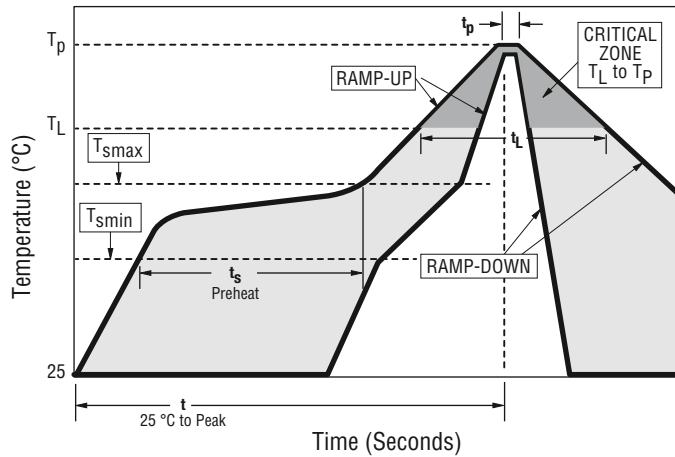
* RoHS Directive 2015/863, Mar 31, 2015 and Annex.

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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Solder Profile



Reflow Condition		Pb-free Assembly
Average Ramp-up Rate		3 °C / second max.
Preheat	Temperature Min. (T _{smin})	150 °C
	Temperature Max. (T _{smax})	200 °C
	Time (T _{smin} to T _{smax})	60 ~ 180 seconds
Liquidus Temperature (T _L)		217 °C
Time above Liquidus Temperature (t _L)		60 ~ 150 seconds
Peak Temperature (T _p)		245 - 250 °C
Time within 5 °C of Actual Peak Temperature (T _p)		20 ~ 40 seconds
Ramp-down Rate from Peak Temperature		6 °C / second max.
Time from 25 °C to Peak Temperature (T _p)		8 minutes max.
Do not Exceed		250 °C

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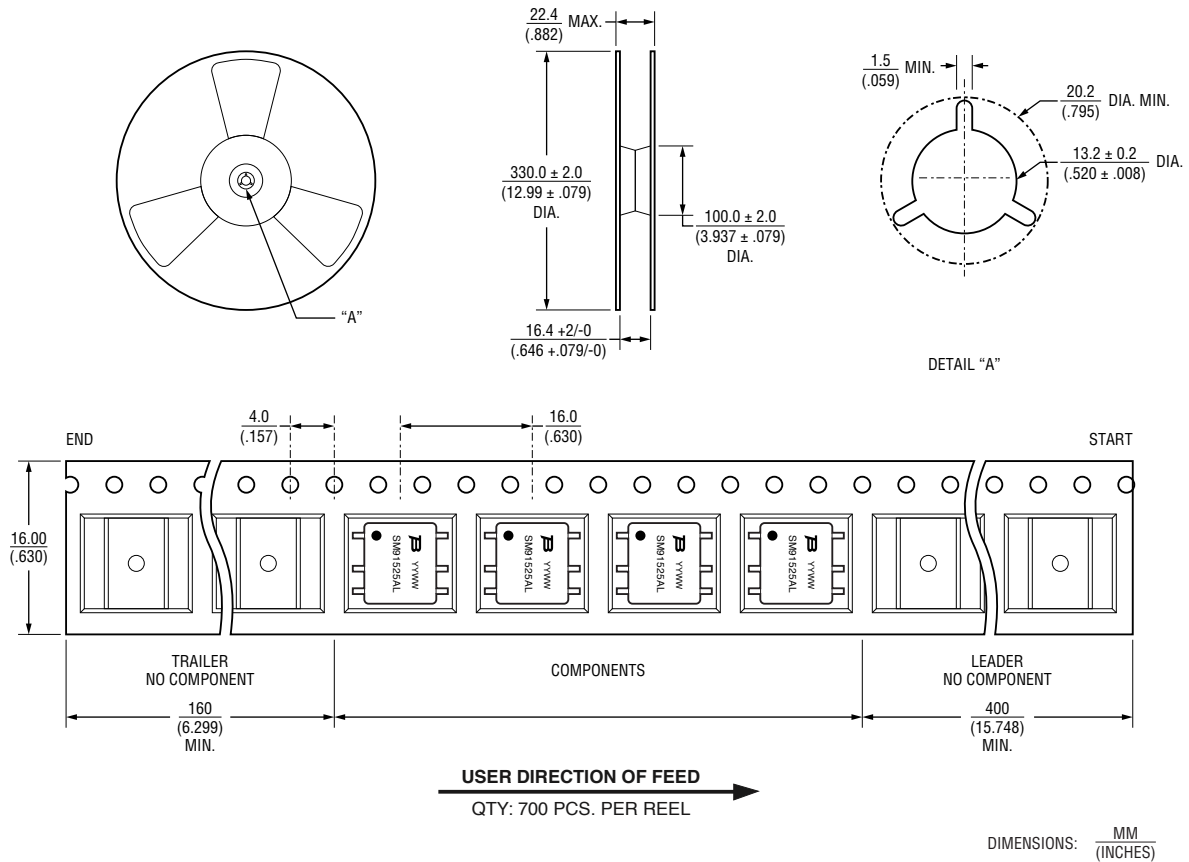
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SM91525AL BMS Transformer

BOURNS®

Packaging Specifications

Specifications and tolerances comply with EIA-481 requirements.



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