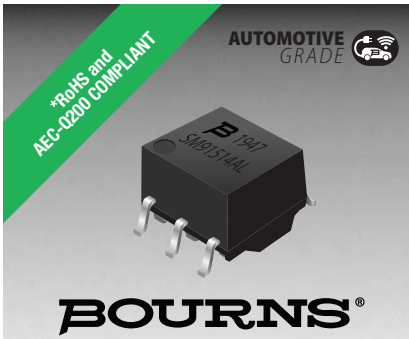




**THE DATASHEET OF
SM91514AL-E**





Features

- Superior quality from full automation of key processes
- 1000 Vdc working voltage and Hi-Pot: 4300 Vdc
- Supports serial daisy chain/IsoSPI communication
- Expanded operating temperature range: -40 to +125 °C
- AEC-Q200 and RoHS compliant*

SM91514AL BMS Transformer

Electrical Specifications @ 25 °C

OCL (-40 ~ +125 °C)	.....300 μ H min. @ 100 kHz, 0.1 V
Leakage Inductance	.....0.5 μ H max. @ 100 kHz, 0.1 V
DCR	
Transformer Side	.....0.60 Ω max.
CM Choke Side	.....1.20 Ω max.
Turns Ratio	.....1:1 \pm 2 %
Insertion Loss	
4 MHz	.....-0.30 dB max.
Return Loss (Z out = 100 Ω)	
4 MHz	.....-20 dB min.
Common Mode Rejection Ratio	
1~100 MHz	.....-35 dB min.
100-200 MHz	.....-20 dB min.
Hi-Pot (1 mA, 60 s)	.....4300 VDC
Working Voltage	.....1000 VDC
Operating Temperature	.....-40 °C to +125 °C
Storage Temperature	.....-50 °C to +125 °C
Moisture Sensitivity Level	.....1
ESD Classification (HBM)	.....N/A

Packaging Specifications

Tape & Reel 800 pcs./reel

How To Order

Model	SM91514	A	L	-	E
Compliance		A = AEC-Q200 Compliant			
Termination		L = Tin (RoHS Compliant)			
Packaging		E = Tape and Reel			

Additional Information

Click these links for more information:



PRODUCT



TECHNICAL LIBRARY



INVENTORY

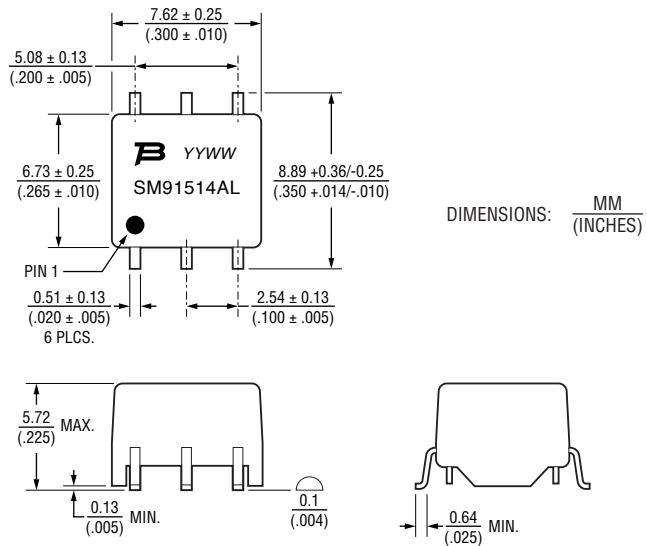


SAMPLES

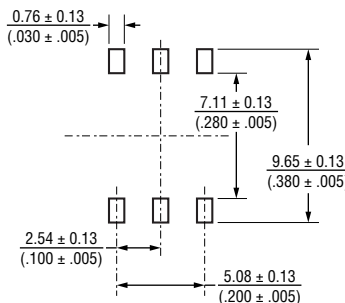


CONTACT

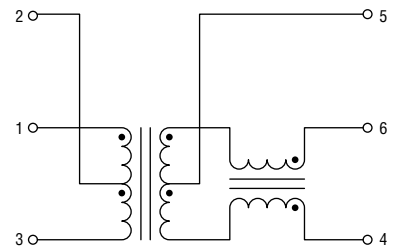
Product Dimensions



Recommended Layout



Electrical Schematic



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

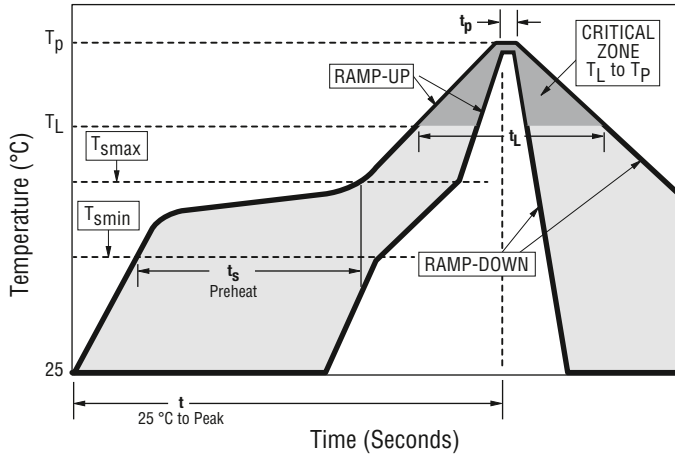
*RoHS Directive 2015/863, Mar 31, 2015 and Annex.

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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		260 °C

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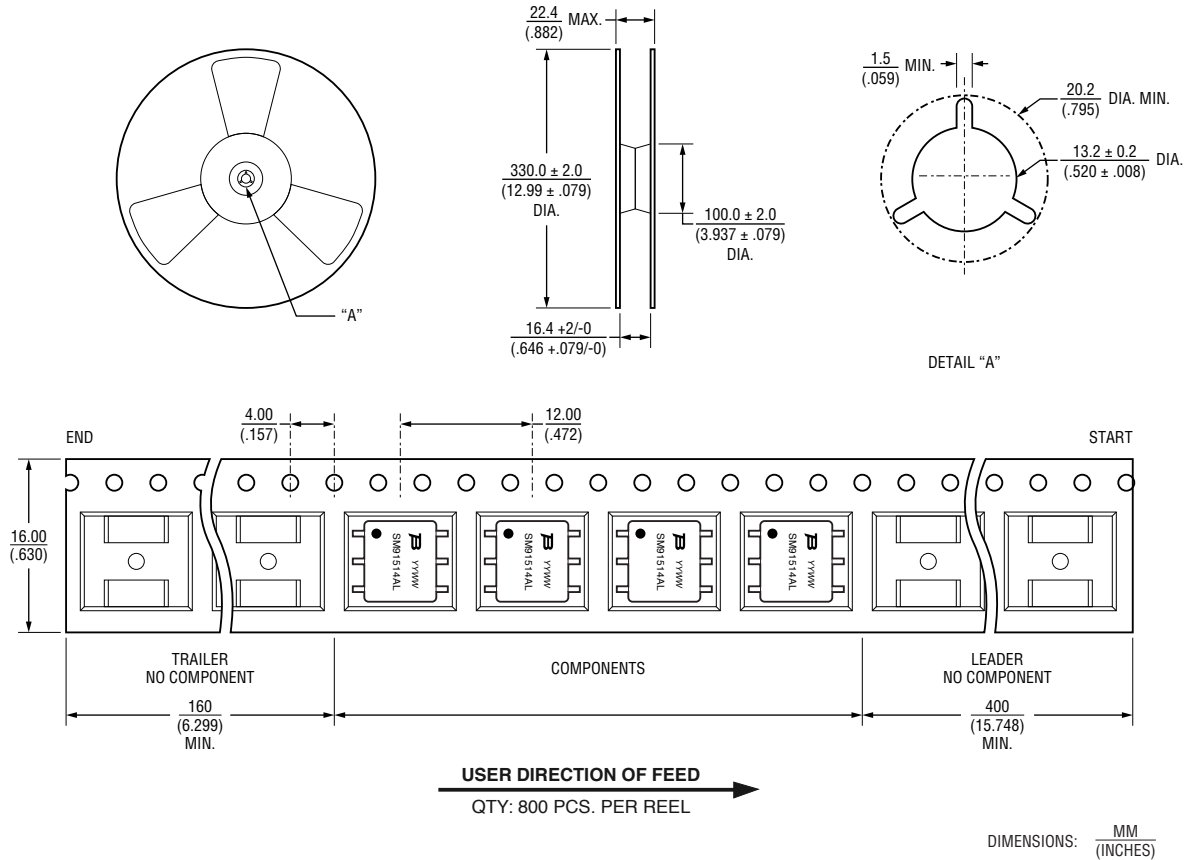
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SM91514AL BMS Transformer

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Packaging Specifications

Specifications and tolerances comply with EIA-481 requirements.



BOURNS®

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