

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 μH min. @ 100 kHz, 0.1 V Leakage Inductance0.5 μH max. @ 100 kHz, 0.1 V DCR Transformer Side0.60 Ω max.

Transformer Side	0.60 Ω max.
CM Choke Side	1.20 Ω max.
Turns Ratio	1:1 ± 2 %
Insertion Loss	
4 MHz	0.30 dB max.

- Return Loss (Z out = 100 Ω) 4 MHz.....--20 dB min.
- Common Mode Rejection Ratio
- -40 °C to +125 °C

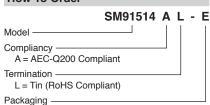
Storage Temperature

Packaging Specifications

Tape & Reel...... 800 pcs./reel

How To Order

E = Tape and Reel



Additional Information

Click these links for more information:





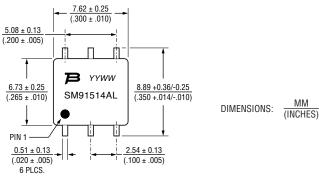


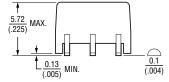


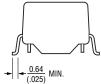




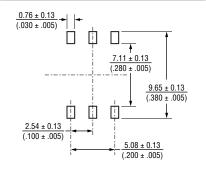
Product Dimensions

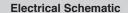


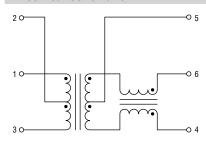




Recommended Layout







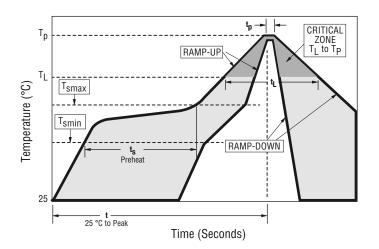


WARNING Cancer and Reproductive Harm www.P65Warnings.ca.gov

*RoHS Directive 2015/863, Mar 31, 2015 and Annex. Specifications are subject to change without notice.

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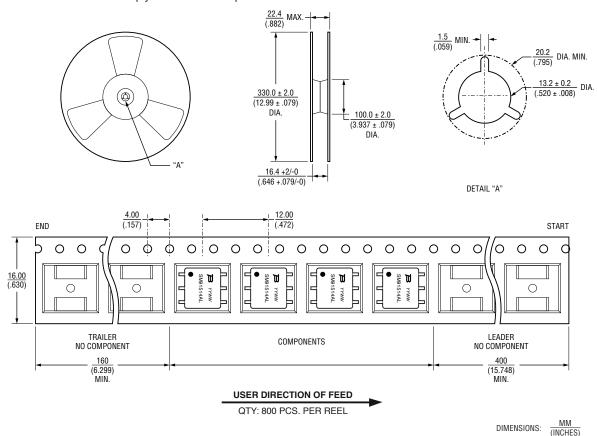
Solder Profile



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

Packaging Specifications

Specifications and tolerances comply with EIA-481 requirements.



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