

OCL

DCR

Leakage Inductance

Insertion Loss

Return Loss (Z out = 100 ohms)

Common Mode Rejection Ratio

Hi-Pot (1 mA, 60 sec.)

Design Construction

1~200 MHz.....-35 dB min.

..... Functional insulation

.....-40 °C to +125 °C

.....-50 °C to +125 °C

Moisture Sensitivity Level1

ESD Classification (HBM).....N/A

Working Voltage .. 1600 Vdc for 15 years

Creepage Distance.....>10 mm

Features

- Two channels with choke
- Supports serial daisy chain / IsoSPI
- Holds reference designs with Analog Device's Model LTC6804-1/6811 and NXP's MC33771/33772
- Operating temperature: -40 to +125 °C
- 1600 Vdc working voltage

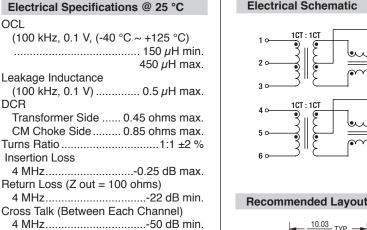
SM91501AL BMS Transformer

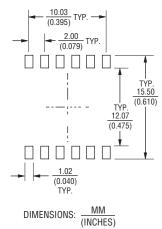
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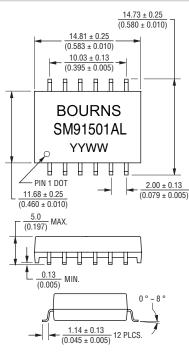




- Hi-Pot: 4300 Vdc
- AEC-Q200 compliant
- RoHS compliant*

Electrical Schematic

Product Dimensions



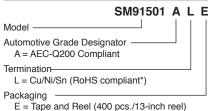
Packaging Specifications

Operating Temperature Range

Storage Temperature Range

Tape & Reel 400 pcs./13-inch reel

How To Order





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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.

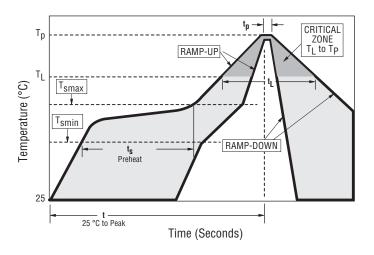
Users should verify actual device performance in their specific applications.

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SM91501AL BMS Transformer

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Solder Profile



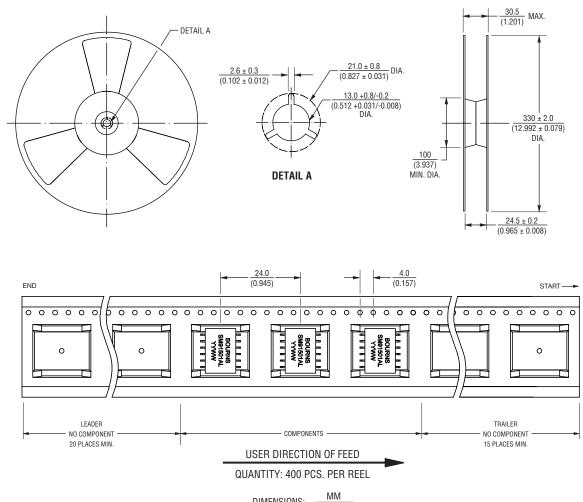
Profile Feature	Pb Free Assembly
Average Ramp Rate (T _{Smax} to T _P)	3 °C/second max.
Preheat - Temperature Min. (T _{Smin}) - Temperature Max. (T _{Smax}) - Time (t _{smin} to t _{smax})	150 °C 200 °C 60-180 seconds
Time Maintained Above - Temperature (TL) - Time (tL)	217 °C 60-150 seconds
Peak Temperature (T _p)	260 °C +0/-5 °C
Time within 5 °C of Actual Peak Temperature (T_p)	20-40 seconds
Ramp-Down Rate	6 °C/second max.
Time 25 °C to Peak Temperature	8 minutes max.

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SM91501AL BMS Transformer

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Packaging Specifications



DIMENSIONS: MIM (INCHES)

09/18

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