

Electrical Specifications @ 25 °C

......150 ~ 450 µH @ 100 kHz, 0.1 V

Transformer Side 0.45 Ω max.

CM Choke Side.....0.8 Ω max. Turns Ratio.....1:1 ± 2 %

4 MHz..... -1.2 dB max.

4 MHz.....-6 dB min.

1~100 MHz...... -50 dB typ.

Hi-Pot (1 mA, 60 s) 6400 VDC

Working Voltage up to 1500 VDC

.....--50 °C to +125 °C Moisture Sensitivity Level......1

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

Tape & Reel...... 300 pcs./reel

SM91519 L - E

Packaging Specifications

L = Tin (RoHS Compliant)

E = Tape and Reel

Return Loss (Z out = 100Ω)

Operating Temperature

Storage Temperature

How To Order

Model

Termination

Packaging

Common Mode Rejection Ratio

OCL (-40 ~ +125 °C)

Leakage Inductance

Insertion Loss

DCR

Features

- Working voltage up to 1500 VDC
- Hi-Pot: 6400 VDC
- Developed for use with NXP model MC33771C series and ADI model LTC6804/681x series
- Design construction: Reinforced insulation between primary and secondary per IEC 62477-1, IEC 60664-1 and IEC 62368-1
- c **W** us UL recognized per UL 62368-1, File No. <u>E515965</u>
- Creepage distance > 15 mm, pollution degree 2, material group CTI I

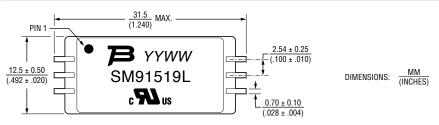
SM91519L BMS Transformer

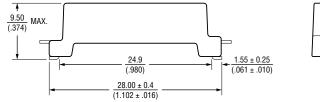
Additional Information

Click these links for more information:



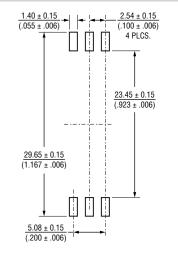
Product Dimensions



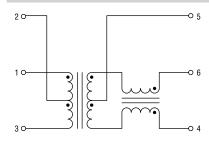




Recommended Layout



Electrical Schematic



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*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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Features (Continued)

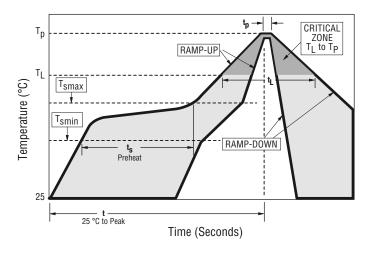
■ Clearance distance > 14 mm, overvoltage category III

RoHS compliant*

SM91519L BMS Transformer

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Solder Profile



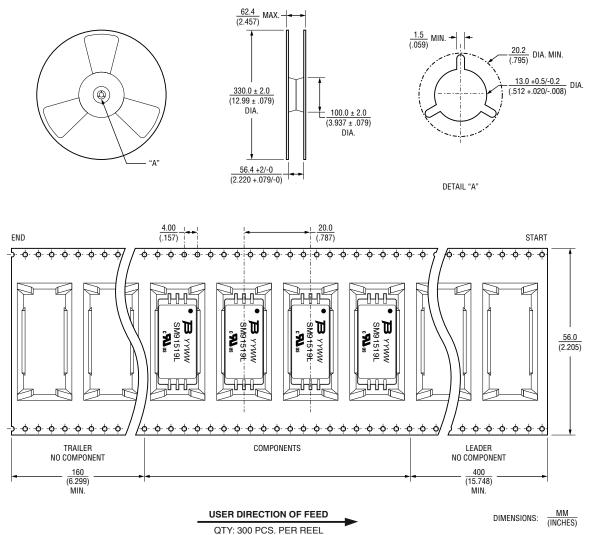
Reflow Condition		Pb-free Assembly
Average Ramp-up Rate		3 °C / second max.
Preheat	Temperature Min. (T _{smin})	150 °C
	Temperature Max. (T _{smax})	200 °C
	Time (T _{smin} to T _{smax})	60 ~ 180 seconds
Liquidus Temperature (T _L)		217 °C
Time above Liquidus Temperature (t_L)		60 ~ 150 seconds
Peak 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

SM91519L BMS Transformer

BOURN S

Packaging Specifications

Specifications and tolerances comply with EIA-481 requirements.



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