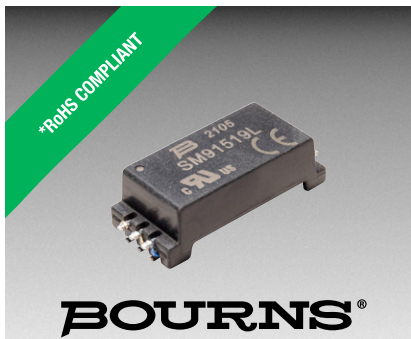




Features

- 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
- us UL recognized per UL 62368-1, File No. [E515965](#)
- Creepage distance > 15 mm, pollution degree 2, material group CTI I

SM91519L BMS Transformer

Electrical Specifications @ 25 °C

OCL (-40 ~ +125 °C)	 150 ~ 450 μ H @ 100 kHz, 0.1 V
Leakage Inductance	 4.5 μ H max. @ 100 kHz, 0.1 V
DCR	
Transformer Side	 0.45 Ω max.
CM Choke Side	 0.8 Ω max.
Turns Ratio	 1:1 $\pm$ 2 %
Insertion Loss	
4 MHz	 -1.2 dB max.
Return Loss (Z out = 100 Ω)	
4 MHz	 -6 dB min.
Common Mode Rejection Ratio	
1~100 MHz	 -50 dB typ.
Hi-Pot (1 mA, 60 s)	 6400 VDC
Working Voltage	 up to 1500 VDC
Operating Temperature	 -40 °C to +125 °C
Storage Temperature	 -25 °C to +85 °C
Moisture Sensitivity Level	 1
ESD Classification (HBM)	 N/A

Packaging Specifications

Tape & Reel 300 pcs./reel

How To Order

SM91519 L - E

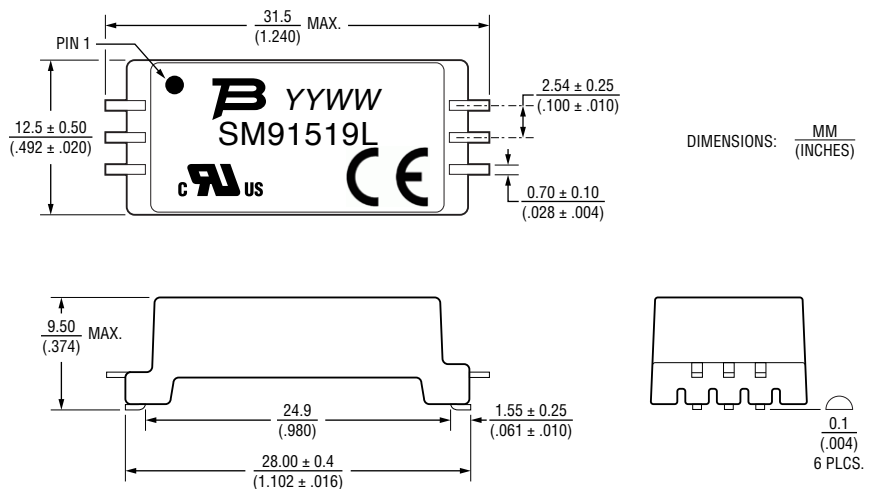
Model _____
Termination _____
L = Tin (RoHS Compliant)
Packaging _____
E = Tape and Reel

Additional Information

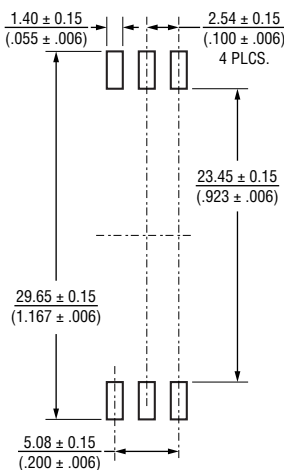
Click these links for more information:



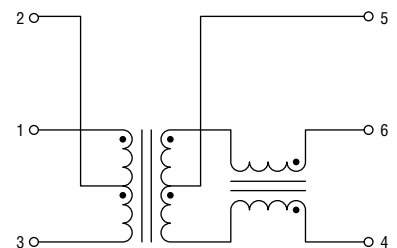
Product Dimensions



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.

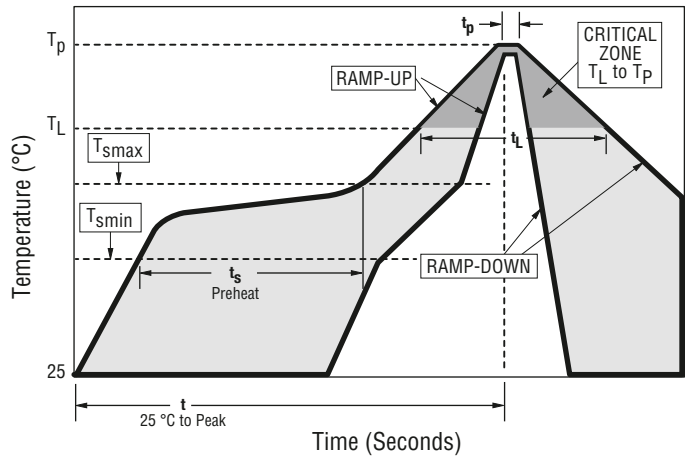
Features (Continued)

- Clearance distance > 14 mm, overvoltage category III
- RoHS compliant*

SM91519L BMS Transformer

BOURNS®

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

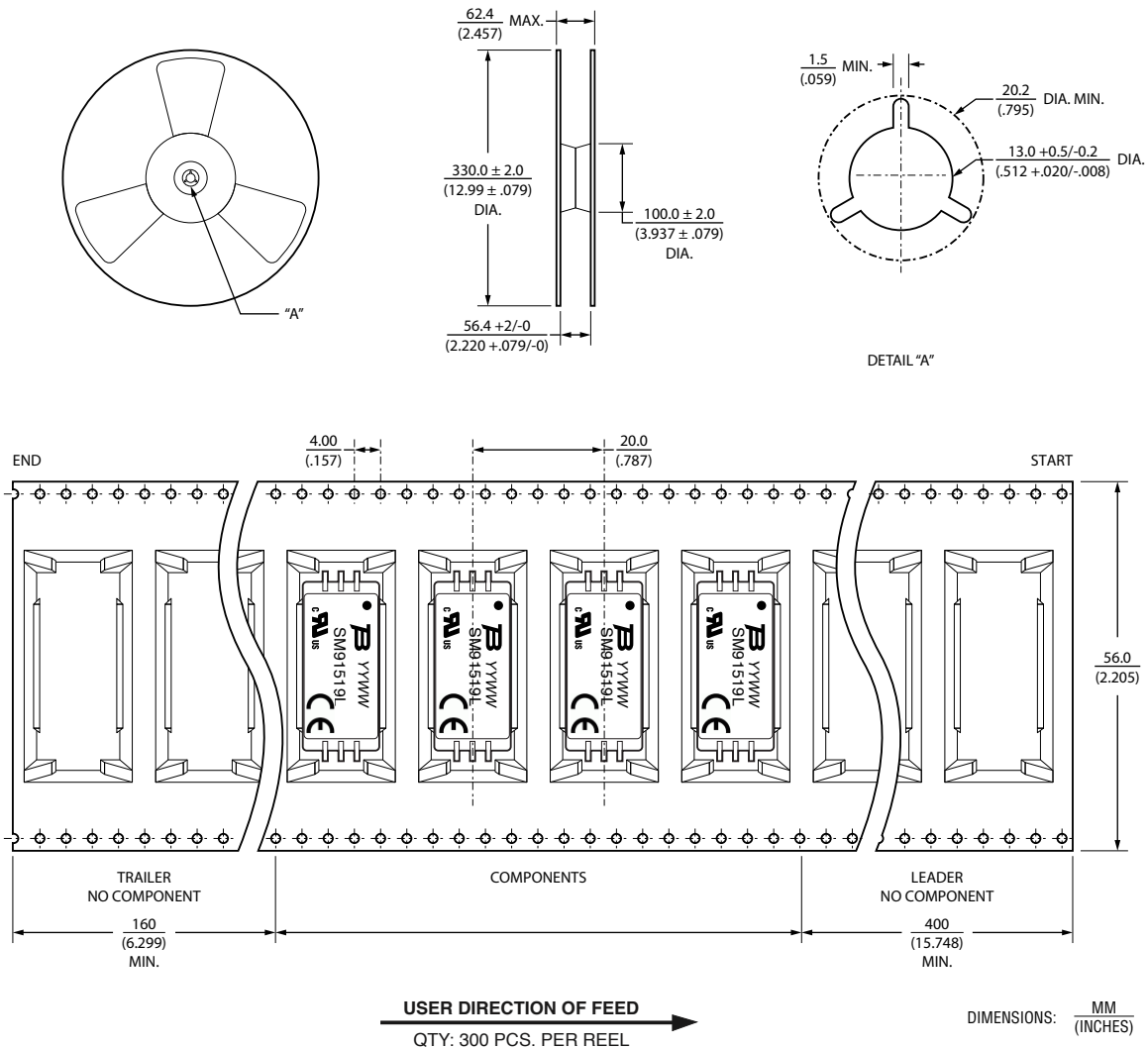
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Users should verify actual device performance in their specific applications.
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SM91519L BMS Transformer

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Packaging Specifications

Specifications and tolerances comply with EIA-481 requirements.



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