

Features

- Working voltage up to 1500 VDC
- Hi-Pot: 7640 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 **Thus** UL recognized per UL 62368-1, File No. <u>E515965</u>
- Creepage distance > 15 mm, pollution degree 2, material group CTI I

SM91527L BMS Transformer

Electrical Specifications @ 25 °C

OCL (-40 ~ +125 °C)150 \sim 450 μ H @ 100 kHz, 0.1 V Leakage Inductance4.5 µH max. @ 100 kHz, 0.1 V **DCR** Transformer Side 0.45Ω max. CM Choke Side............... 0.8 Ω max. Turns Ratio1:1 ± 2 % Insertion Loss 4 MHz.....-1.2 dB max. Return Loss (Z out = 100Ω) 4 MHz.....-6 dB min.

Common Mode Rejection Ratio 1~100 MHz.....-50 dB typ. Hi-Pot (1 mA, 2 s)......7640 VDC Working Voltageup to 1500 VDC Operating Temperature

.....-40 °C to +125 °C Storage Temperature

.....-50 °C to +125 °C Partial discharge level 2250 V Impulse Voltage 12 KV, 1.2/50 μs Moisture Sensitivity Level.....1 ESD Classification (HBM).....N/A

Packaging Specifications

How To Order

SM91527 L - E Model Termination L = Tin (RoHS Compliant) Packaging E = Tape and Reel

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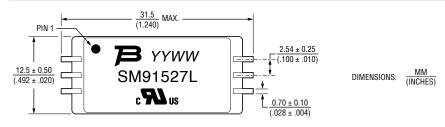


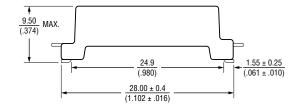


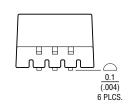


TECHNICAL INVENTORY SAMPLES

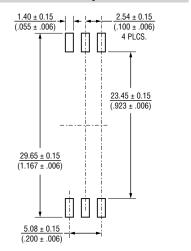
Product Dimensions



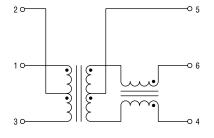




Recommended Layout



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.

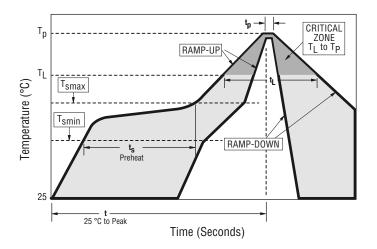
Features (Continued)

- Clearance distance > 14 mm, overvoltage category III
- Partial discharge level up to 2250 V
- Withstand impulse voltage up to 12 KV, 1.2/50 µs
- RoHS compliant*

SM91527L BMS Transformer

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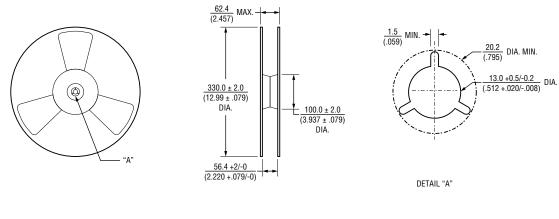
Solder Profile

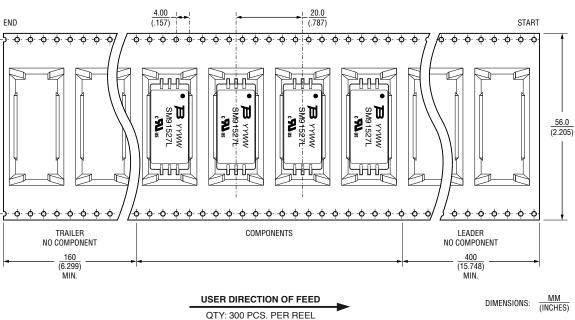


Reflow Condition		Pb-free Assembly
Average Ramp-up Rate		3 °C / second max.
Preheat	Temperature Min. (T _{smin})	150 °C
	Temperature Max. (T _{smax})	200 °C
	Time (T _{smin} to T _{smax})	60 ~ 180 seconds
Liquidus Temperature (T _L)		217 °C
Time above Liquidus Temperature (t _L)		60 ~ 150 seconds
Peak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

Packaging Specifications

Specifications and tolerances comply with EIA-481 requirements.





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