Features

- First pin auto-termination
- Working voltage: 1000 VDC
- Hi-Pot: 4300 VDC
- Single channel with integrated choke
- Functional insulation
- Developed for use with Analog Device's Model LTC6804-1/681X, NXP's Model MC33771/33772 and Texas Instruments' Model BQ79616
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

SM91502ALA BMS Transformer

Electrical Specifications @ 25 °C

OCL (-40 ~ +125 °C)
.....150 ~ 450 µH @ 100 kHz, 0.1 V
Leakage Inductance
.....0.5 µH max. @ 100 kHz, 0.1 V
DCR
Transformer Side ..... 0.45 Ω max.
CM Choke Side ..... 0.85 Ω max.
Turns Ratio .....1:1 ± 2 %
Insertion Loss
4 MHz..... -0.25 dB max.
Return Loss (Z out = 100 Ω)
4 MHz..... -22 dB min.
Common Mode Rejection Ratio
1~100 MHz..... -35 dB min.
100~200 MHz..... -28 dB min.
Hi-Pot (1 mA, 60 s)..... 4300 VDC
Working Voltage ..... 1000 VDC
Operating Temperature
..... -40 °C to +125 °C
Storage Temperature
..... -50 °C to +125 °C
Moisture Sensitivity Level.....1
ESD Classification (HBM)..... N/A

Packaging Specifications

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

How To Order

SM91502 A L A - E

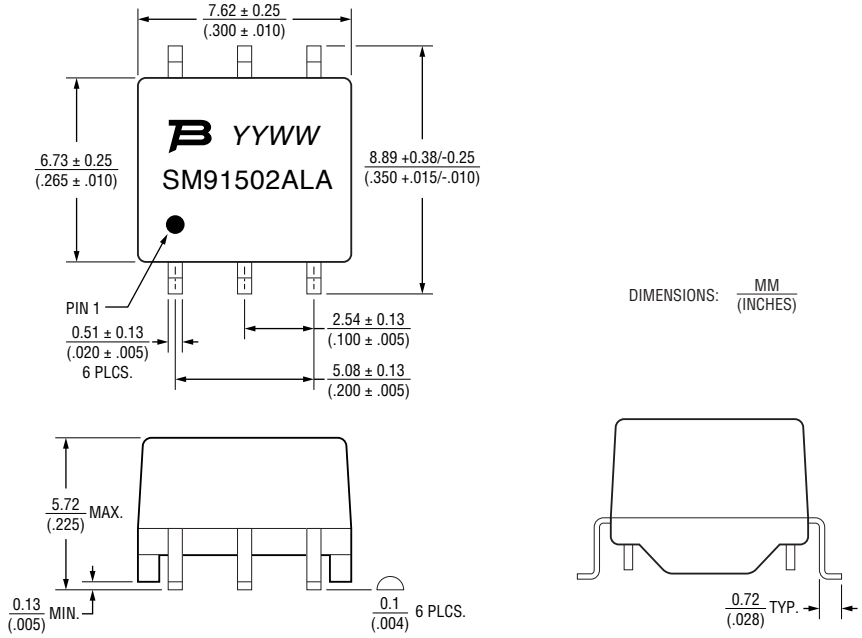
Model
Compliancy
A = AEC-Q200 Compliant
Termination
L = Tin (RoHS Compliant)
Auto Pin Termination
Packaging
E = Tape and Reel

Additional Information

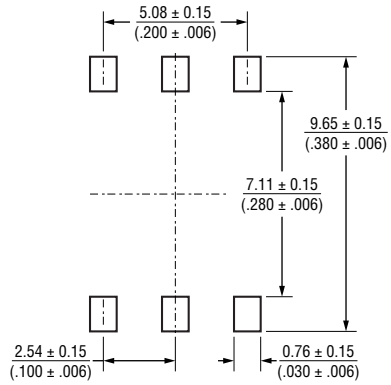
Click these links for more information:

PRODUCT | TECHNICAL LIBRARY | INVENTORY | SAMPLES | CONTACT

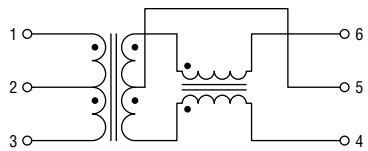
Product Dimensions



Recommended Layout



Electric Schematic

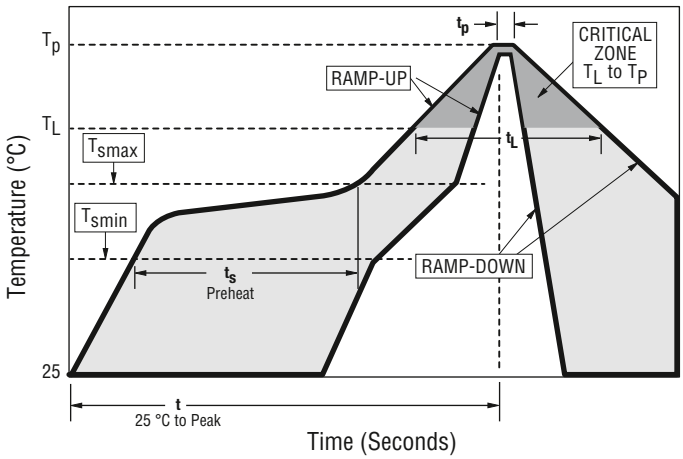


WARNING Cancer and Reproductive Harm
www.P65Warnings.ca.gov

* RoHS Directive 2015/863, Mar 31, 2015 and Annex.

**Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

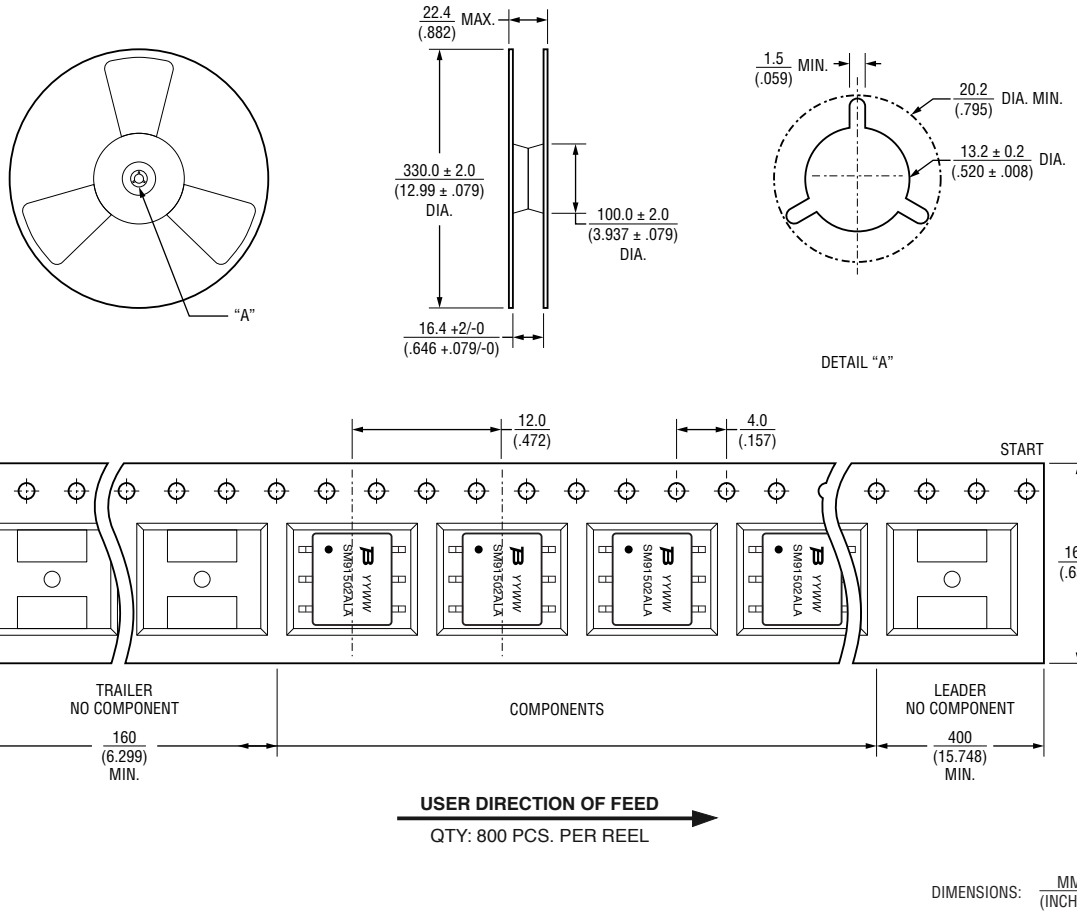
Solder Profile



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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REV. 08/21

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