

Electrical Specifications @ 25 °C

OCL (-40 ~ +125 °C)

Features

- Working Voltage: 1600 VDC
- Hi-Pot: 4300 VDC or 3100 VAC
- Two channels with integrated choke
- Developed for use with Analog Device's Model LTC6804/681X, NXP's Model MC33771/33772 and Texas Instruments' Model BQ79616

SM91501ALO BMS Transformer

Additional Information

Click these links for more information:

- Design construction: Functional insulation per IEC 60664-1 and IEC 62368-1
- c¶Us UL recognized per UL 62368-1, File No. <u>E515965</u>
- Impulse voltage: 8 kV,1.2/50 μs

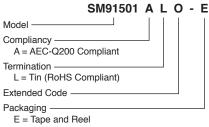
CONTACT

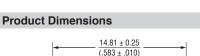
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

......150 ~ 450 µH @ 100 kHz, 0.1 V Leakage Inductance0.5 µH max. @ 100 kHz, 0.1 V DCR Transformer Side 0.45 Ω max. CM Choke Side 0.85 Ω max. Turns Ratio1:1 ± 2 % Insertion Loss 4 MHz..... -0.25 dB max. Return Loss (Z out = 100Ω) 4 MHz.....-22 dB min. Cross Talk (between each channel) 1~10 MHz...... -50 dB min. 10~100 MHz 11.68 ± 0.25-50+20*LOG10 (f/10 MHz) min. $(.460 \pm .010)$ Common Mode Rejection Ratio 1~100 MHz.....-45 dB min. 100~200 MHz..... -35 dB min. Hi-Pot (1 mA, 60 s) PIN 1 Working Voltage up to 1600 VDC 0.51 ± 0.13 Operating Temperature (.020 ± .005) 12 PLCS. -40 °C to +125 °C Storage Temperature Moisture Sensitivity Level1 <u>J.U</u> (.197) MAX. ESD Classification (HBM).....N/A 0.13 MIN. **Packaging Specifications** (005)

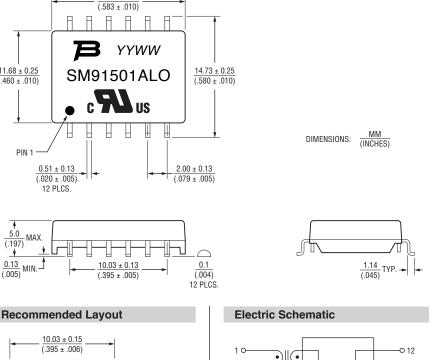
Tape & Reel..... 400 pcs./reel

How To Order



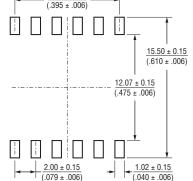


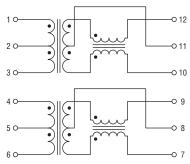
PRODUCT



TECHNICAL INVENTORY SAMPLES

LIBRARY







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.

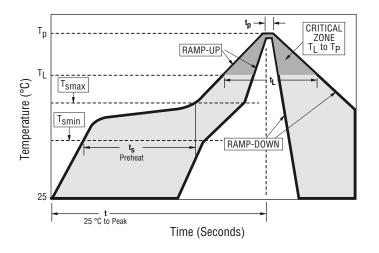
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SM91501ALO BMS Transformer

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 $^\circ\text{C}$ of Actual Peak Temperature (Tp)		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

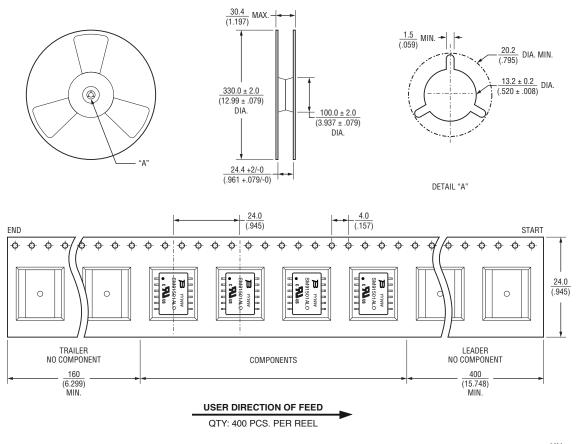
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SM91501ALO BMS Transformer

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Packaging Specifications

Specifications and tolerances comply with EIA-481 requirements.



DIMENSIONS: MM (INCHES)

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