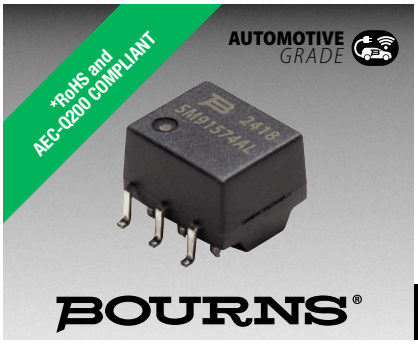


Features

- Pin auto-termination
- Working voltage: 1000 VDC
- Hi-Pot: 3000 VAC, 1 mA, 60 sec.
- Single channel with integrated choke
- Developed for use with Analog Device's LTC6804-1/681X, NXP's MC33771/ 33772 and TI's BQ79616
- Functional insulation
- AEC-Q200 compliant
- RoHS compliant*

SM91574AL BMS Transformer

Additional Information

Click these links for more information:

PRODUCT | TECHNICAL LIBRARY | INVENTORY | SAMPLES | CONTACT

Electrical Specifications @ 25 °C

Inductance (100 kHz / 0.1 V)
(-40 °C to +125 °C)..... 300 µH min.
Leakage Inductance
(1-3) with (6-4) shorted:..... 0.5 µH max.
DCR
1-3..... 0.6 Ω max.
4-6..... 1.2 Ω max.
Cww
1-6.....25 pF max.
Turns Ratio.....1:1 ±2 %
Insertion Loss (1-3)-(6-4)
4 MHz ..... -0.3 dB max.
Return Loss (1-3)-(6-4)
4 MHz ..... -20 dB min.
HI-Pot (1 mA, 60 S).....3000 VAC
Common mode rejection ratio (1-3)-(6-4):
1~100 MHz ..... -35dB min.
100~200 MHz ..... -20dB min.
Operating Temperature Range:
..... -40 °C to +125 °C
Storage Temperature Range:
..... -25 °C to +85 °C
Moisture Sensitivity Level 1

Packaging Specification

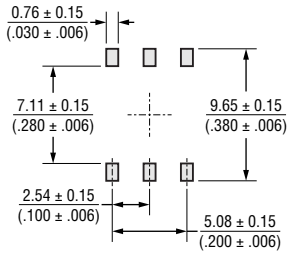
Tape & Reel..... 800 pcs. per 13-inch reel

How To Order

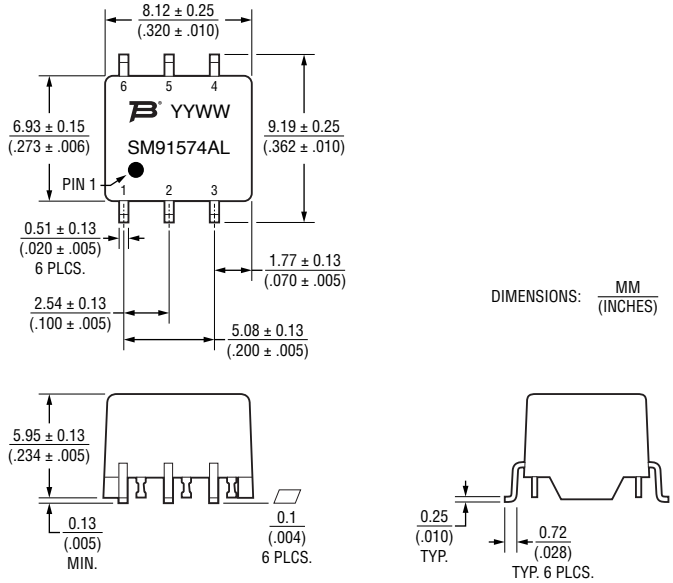
SM91574 A L - E

Model
AEC-Q200 Compliancy Designator
Termination
L = Tin (RoHS Compliant)
Packaging
E = Tape & Reel

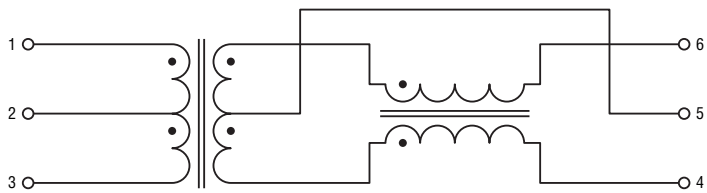
Recommended Layout



Product Dimensions



Electric Schematic



● same polarity

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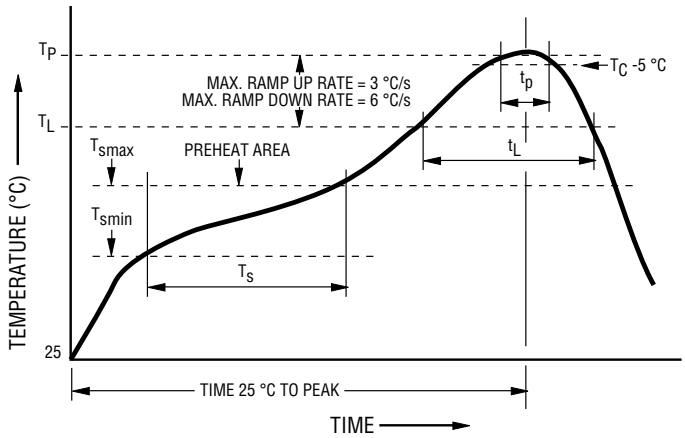
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Cancer and Reproductive Harm
www.P65Warnings.ca.gov

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



Profile Feature	Pb-Free Assembly
Preheat / Soak: Temperature Min. (T_{smin}) Temperature Max. (T_{smax}) Time (t_s) from (T_{smin} to T_{smax})	 150 °C 200 °C 60~120 seconds
Ramp Up Rate (T_L to T_p)	3 °C / second max.
Liquidous Temperature (T_L) Time (t_L) maintained above T_L	217 °C 60~150 seconds
Peak Package Body Temperature (T_p)	$T_p \leq T_c$ (see table below)
Time (t_p)* within 5 °C of the specified classification temperature (T_c)	< 30 seconds*
Ramp Down Rate (T_p to T_L)	6 °C / second max.
Time 25 °C to Peak Temperature	8 minutes max.

**Tolerance for peak profile temperature (T_p) is defined as a supplier minimum and a user maximum.*

Pb-Free Process Classification Temperatures (T_c)

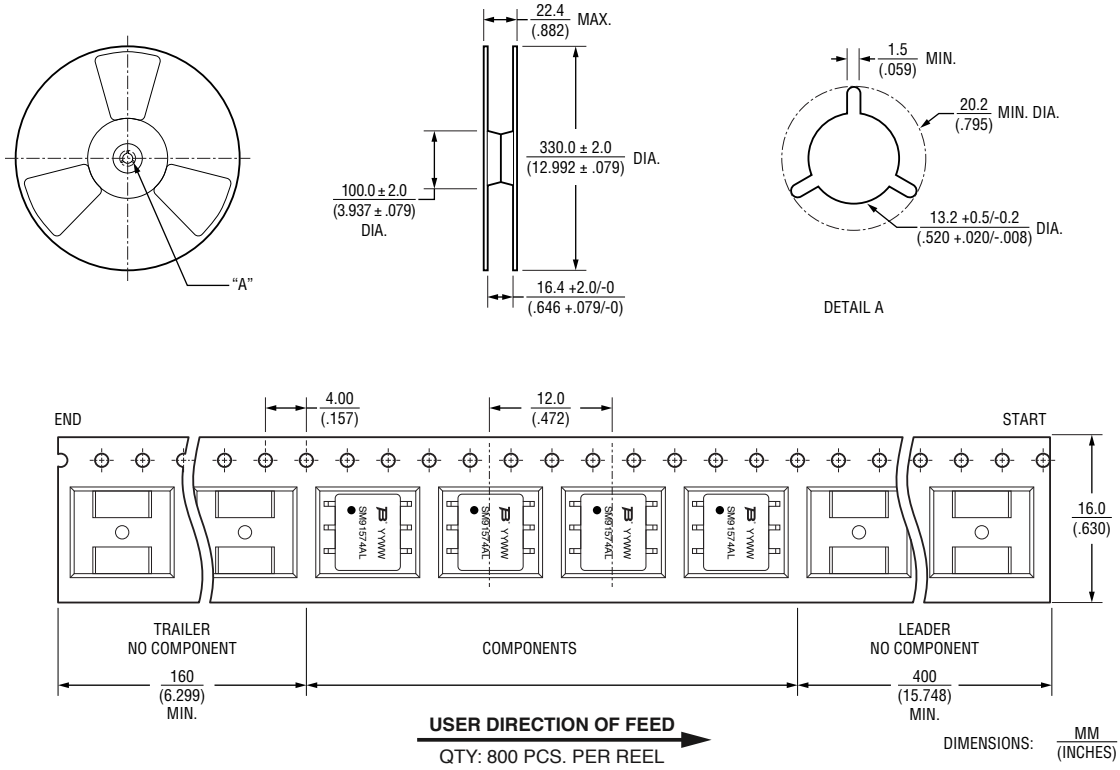
Package Thickness	Volume mm³ < 350	Volume mm³ 350 - 2000	Volume mm³ > 2000
< 1.6 mm	260 °C	260 °C	260 °C
1.6 mm - 2.5 mm	260 °C	250 °C	245 °C
> 2.5 mm	250 °C	245 °C	245 °C

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Packaging Specifications

Specifications and tolerances comply with EIA-481 requirements.



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