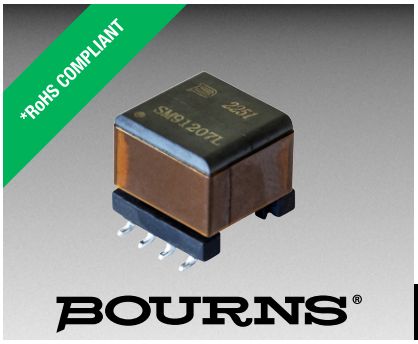


Features

- EP10 structure, push-pull design
- Developed for use with TI SN6507
- 24 V to 15 V application
- Working voltage: 400 V per functional insulation
- Hi-Pot: 2.5k VAC, 1 mA, 60 sec.
- Compliant with IEC/UL 62368-1
- RoHS* and REACH compliant

SM91207L Push-Pull Transformer

Additional Information

Click these links for more information:

PRODUCT | TECHNICAL LIBRARY | INVENTORY | SAMPLES | CONTACT

Electrical Specifications @ 25 °C

Primary Inductance (1 V at 100 kHz)
L(1-4), tie Pin 2,3 .....430 µH ±35 %
Leakage Inductance (100 kHz/0.1 V)
L(1-4, tie Pin 2,3;
short Pin 5,6,7,8)..... 1.6 µH max.
DC Resistance
NP1 (1-2)..... 0.35 Ω max.
NP2 (3-4)..... 0.4 Ω max.
NS1 (8-7)..... 0.3 Ω max.
NS2 (6-5)..... 0.3 Ω max.
Turns Ratio (8-5):(1-4)
Pin 2,3 tied; Pin 6-7 tied.....0.733 ±3 %
Volt Second on Half of Primary
(unipolar operation).....25.0 Vµs min.
Clearance and Creepage Distance
between Primary and Secondary
.....2 mm min.
Hi-Pot (P-S) .....2.5k VAC,1 mA, 60 sec.
Operating Temperature Range
..... -40 °C to +125 °C
Storage Temperature Range
..... -25 °C to +85 °C
Moisture Sensitivity Level.....1

Packaging Specification

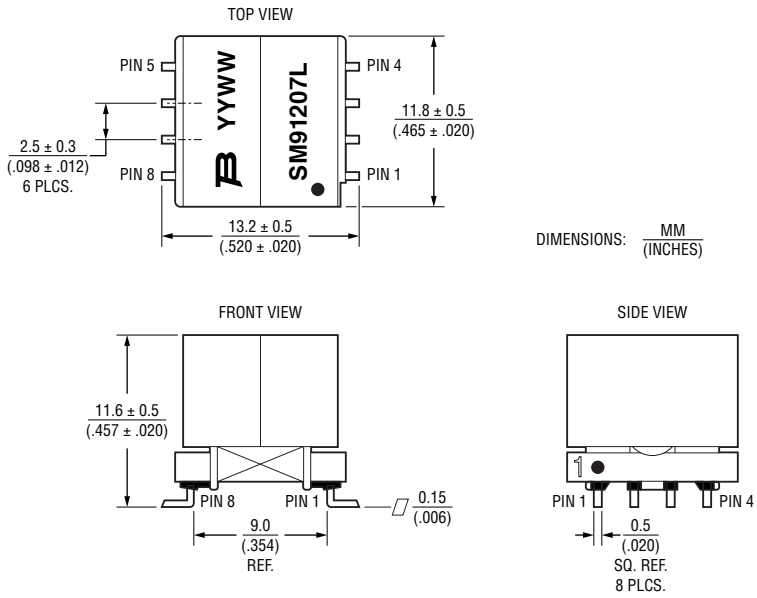
Tape & Reel..... 200 pcs. per 13-inch reel

How To Order

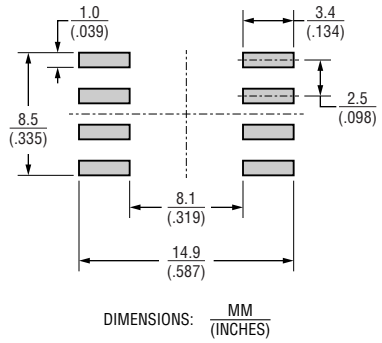
SM91207 L - E

Model
RoHS Compliancy Designator
Packaging
E = 200 pcs. per 13-inch Reel

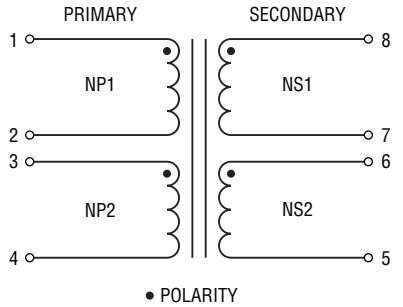
Product Dimensions



Recommended Layout



Electrical Schematic



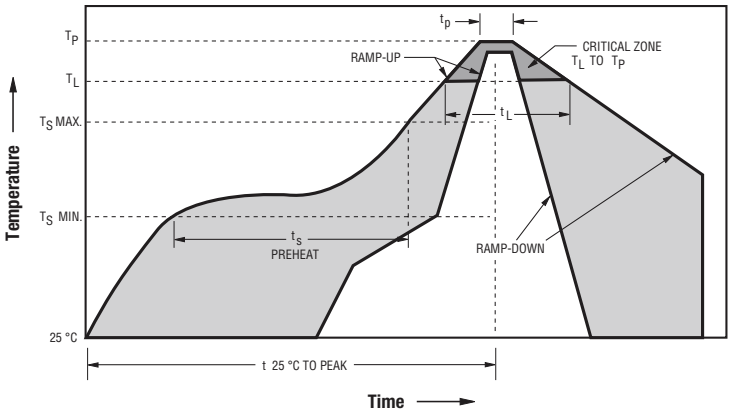
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WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

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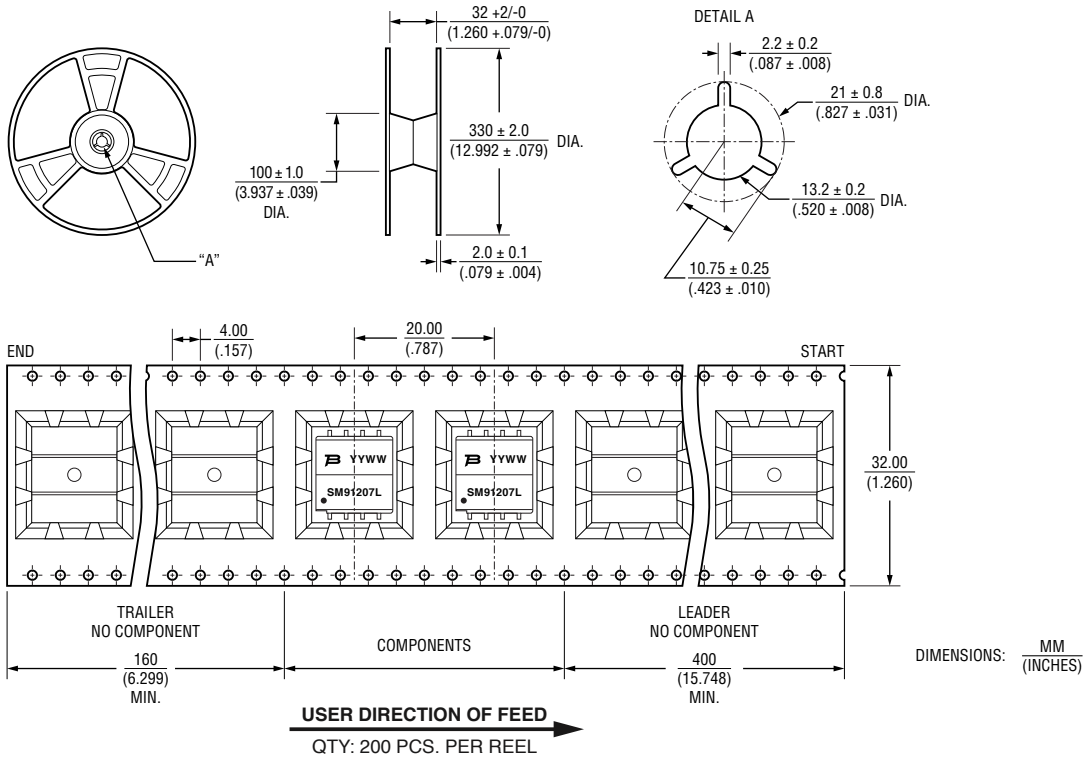
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Reflow Solder Profile



Profile Feature	Pb-Free Assembly
Average Ramp-Up Rate	3 °C / second max.
PREHEAT: Temperature Min. (T_{smin}) Temperature Max. (T_{smax}) Time (T_{smin} to T_{smax})	 150 °C 200 °C 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 25 °C to Peak Temperature (T_p)	8 minutes max.
Do Not Exceed	250 °C

Packaging Specifications



REV. 05/25

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