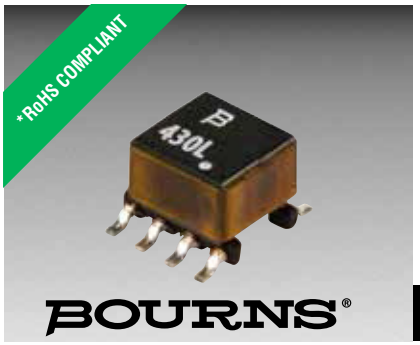


Features

- Compact size
- Targeted speed up to 1 Gbps
- Meets EN60950-1 Functional Insulation
- RoHS compliant*

Applications

- Broadcom G.Fast chipset BCM6594x and BCM6524x
- Microsemi line driver Le87282

SM51430EL G.Fast Transformer

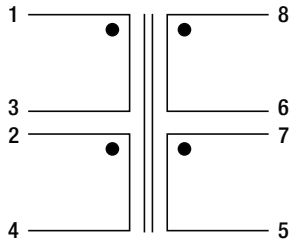
Electrical Specifications @ 25 °C

DCR
Pin 1-4..... 1 Ω max.
Pin 5-8..... 1 Ω max.
Inductance @10 kHz, 0.1 Vrms
Pin 1-4..... 10 μH ±10 % (Pin 2,3 Short)
Leakage Inductance @100 kHz, 0.1 Vrms
Pin 1-4..... 1 μH max. (Pin 2-3, 5-6-7-8 Short)
Interwinding Capacitance @100 kHz, 0.1 Vrms
Pin 1-8.....50 pF max. (Pin 2-3, 6-7 Short)
THD @200 kHz, 1 Vrms
Pin 1-4.....-68 dB min.
(Pin 1-4, Pin 5-8: 100 Ω termination; Pin 2-3, 6-7 Short)
Longitudinal Balance
Pin 1-4.....44 dB min. @<12 MHz (Pin 2-3 Short)
Pin 1-4.....41 dB min. @17 MHz (Pin 2-3 Short)
Pin 1-4.....36 dB min. @30 MHz (Pin 2-3 Short)
Turns Ratio @10 kHz, 0.1 Vrms
Pin 1-4 : Pin 5-8 .....1:1 ±2 % (Pin 2-3, 6-7 Short)
Hi-Pot @1500 VAC, 1 sec., 0.5 mA
Pin 1-8..... (Pin 2-3, 6-7 Short)
Operating Temperature Range
.....-40 °C to +85 °C
Storage Temperature Range
.....-40 °C to +85 °C

Packaging Specifications

Tape & Reel..... 900 pcs./reel

Electrical Schematic

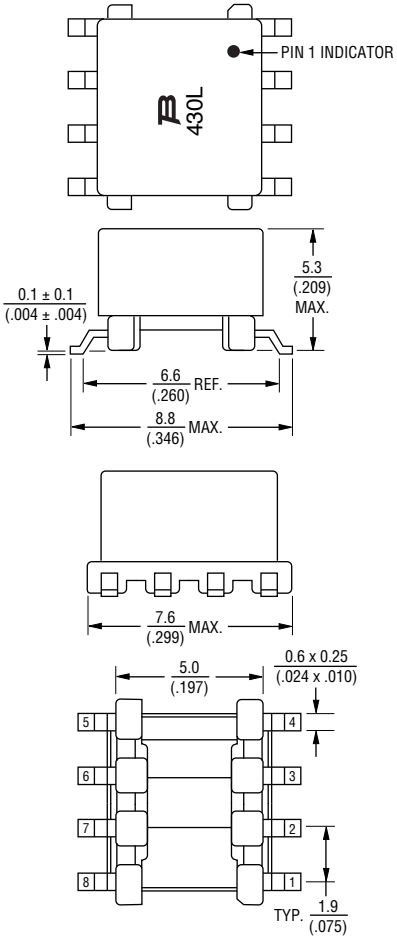


How To Order

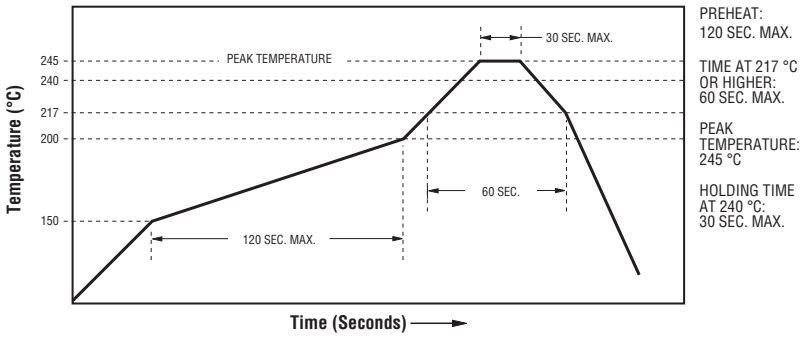
SM51430 E L

Model
Packaging
E = Tape and Reel (900 pcs./reel)
Termination
L = Tin (RoHS Compliant)

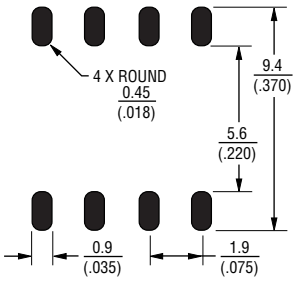
Product Dimensions



Reflow Solder Profile



Recommended Layout



DIMENSIONS: MM (INCHES)

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

*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.
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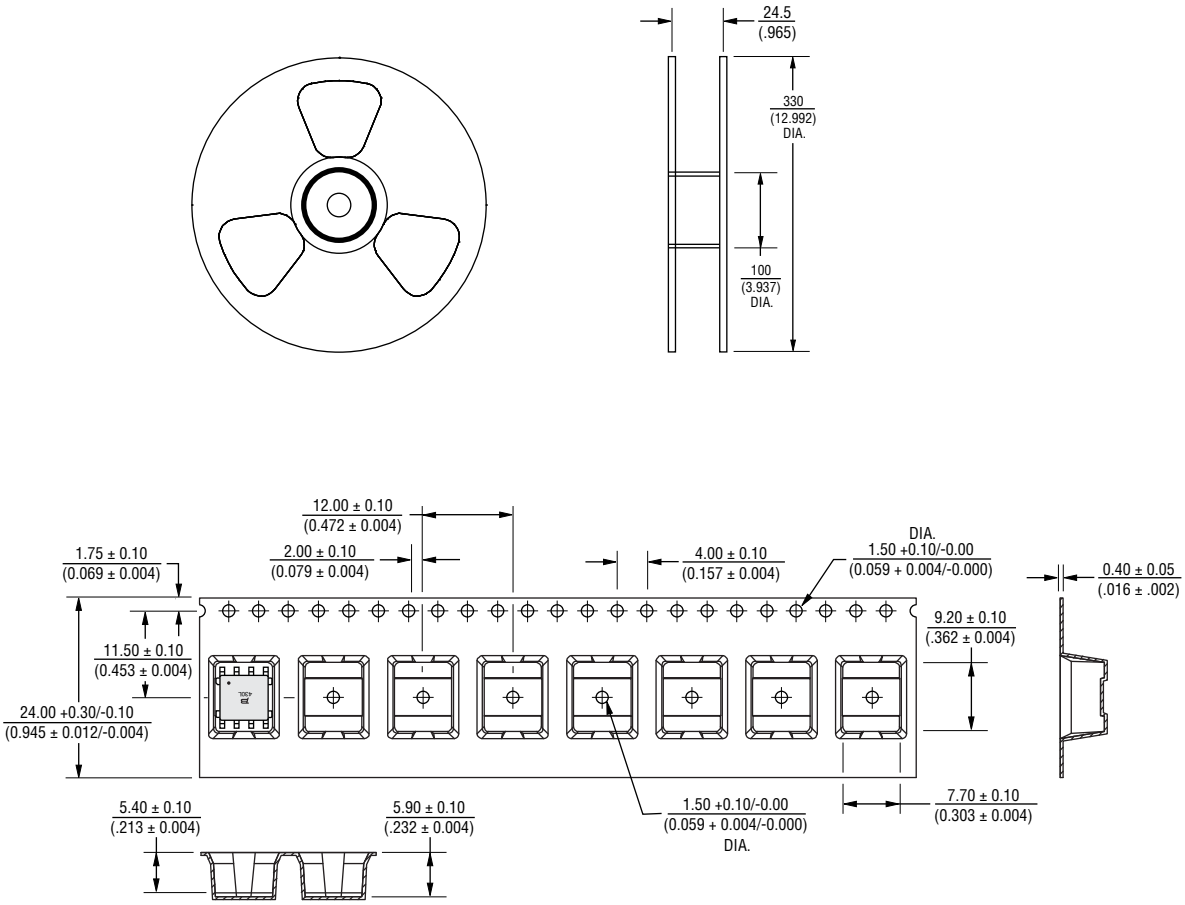
Packaging Specifications



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