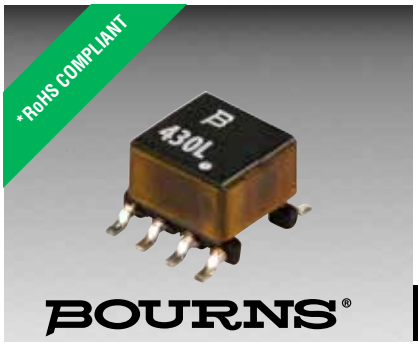



## Features

- 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

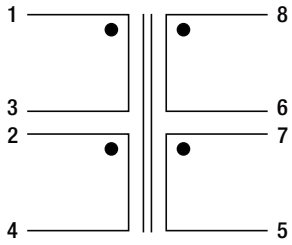
### Electrical Specifications @ 25 °C

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
.....0 °C to +85 °C
Storage Temperature Range
.....-40 °C to +85 °C

### Packaging Specifications

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

### Electrical Schematic

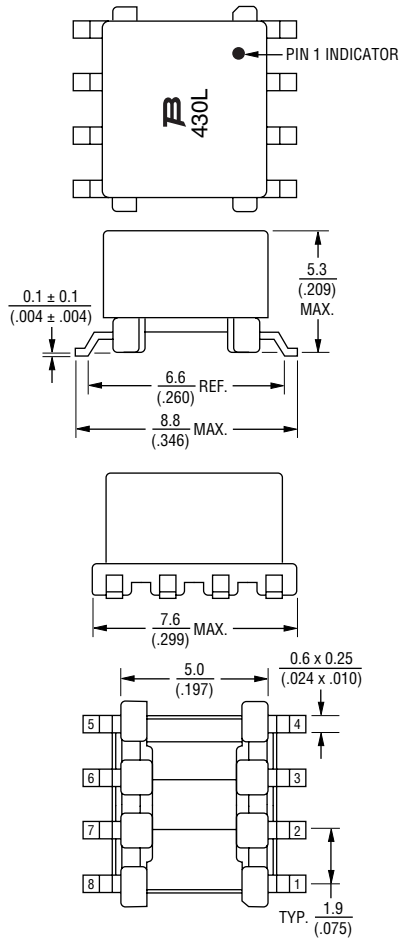



### How To Order

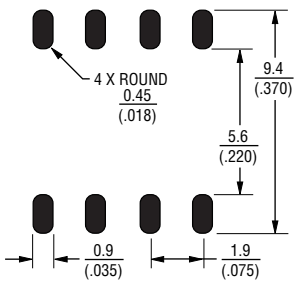
**SM51430 E L**

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

### Product Dimensions

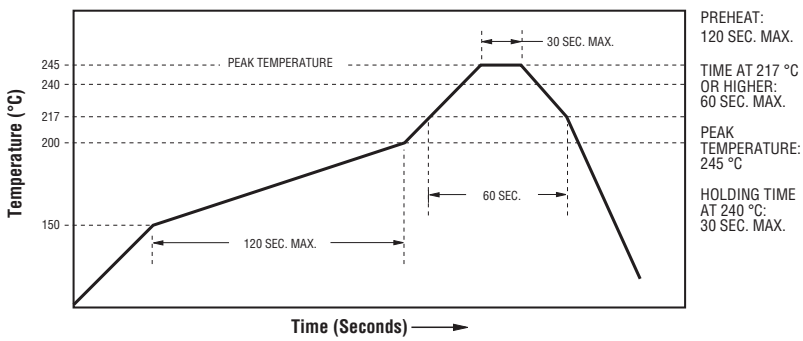



### Recommended Layout



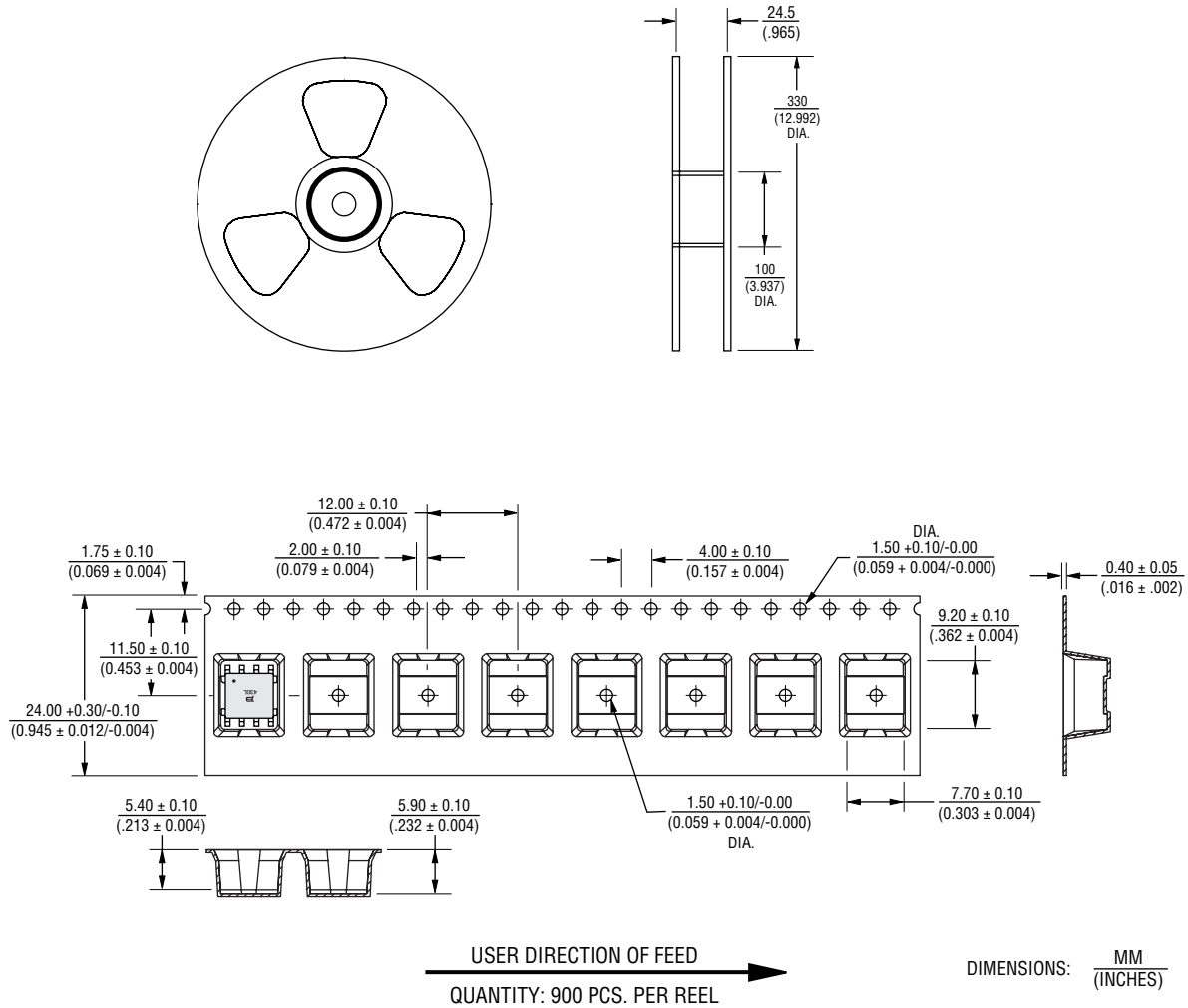

DIMENSIONS: MM (INCHES)

### Reflow Solder Profile




*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.
Specifications are subject to change without notice.
The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.
Users should verify actual device performance in their specific applications.
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## Packaging Specifications




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