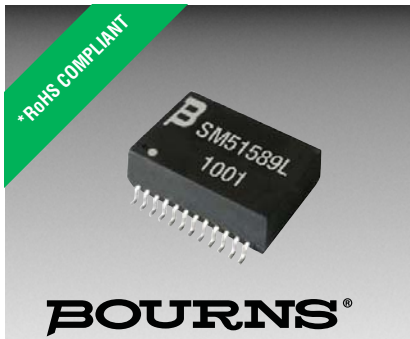




Features

- Compliant with IEEE802.3 standards
- Designed for 10/100/1000 Base-T and PoE
- 5K VAC dielectric withstanding voltage
- RoHS compliant*



Model SM51589L is currently available but not recommended for new designs. [Model SM51589PEL](#) is a suggested alternative - see data sheet for specifications.

SM51589L LAN 10/100/1000 Base-T Transformer (PoE) Modules

Electrical Specifications @ 25 °C

Turns Ratio TX/RX.....	1CT:1CT
Cross Talk	
30 MHz.....	45 dB min.
60 MHz.....	40 dB min.
80 MHz.....	35 dB min.
Insertion Loss	
1-100 MHz.....	-1.0 dB max.
Return Loss (@ 100 Ohms)	
1-30 MHz.....	18 dB min.
40 MHz.....	14.4 dB min.
50 MHz.....	13.1 dB min.
60-80 MHz.....	12 dB min.
100 MHz.....	10 dB min.
PRI OCL (@100 KHz,	
0.1 V, 8 mA, DC Bias)	350 μ H min.
DCMR	
30 MHz.....	43 dB min.
60 MHz.....	37 dB min.
80 MHz.....	33 dB min.
PoE Current.....	Up to 600 mADC
for 1000 Base-T	
Isolation Hi-Pot	5000 VAC, 1 mA,
2 seconds	
Operating Temperature	
.....	-40 °C to +85 °C

Packaging Specifications

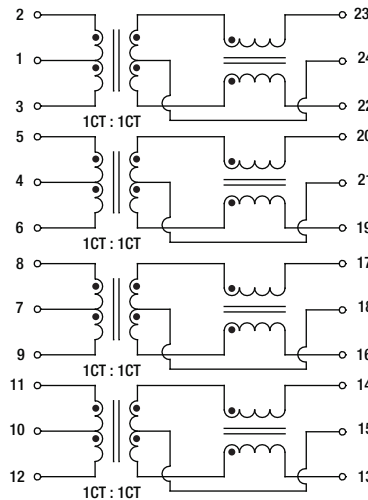
Tape & Reel..... 400 pcs./reel

How To Order

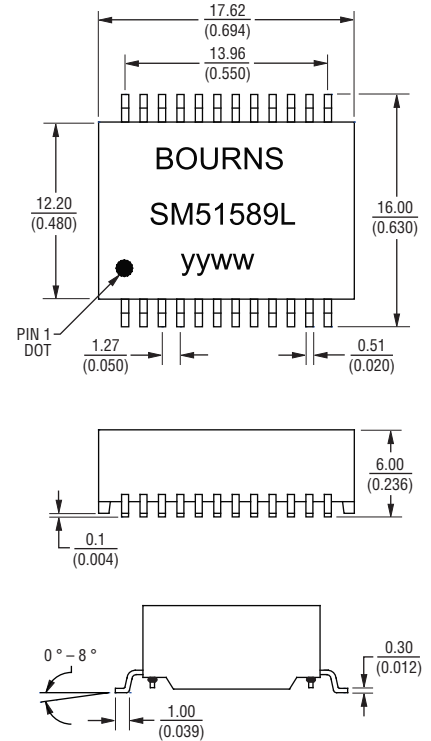
SM51589E L

Model _____
Termination _____
L = Tin only (RoHS compliant)

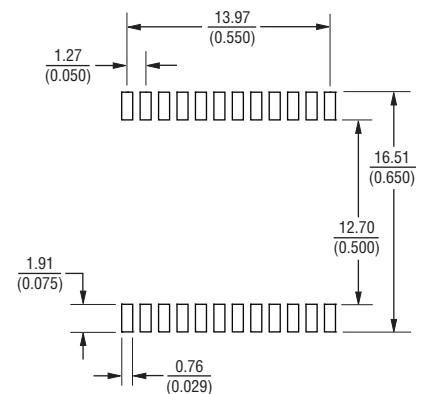
Electrical Schematic



Product Dimensions



Recommended Layout



DIMENSIONS: $\frac{\text{MM}}{(\text{INCHES})}$

TOLERANCES: $\pm \frac{0.25}{(.010)}$

*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.

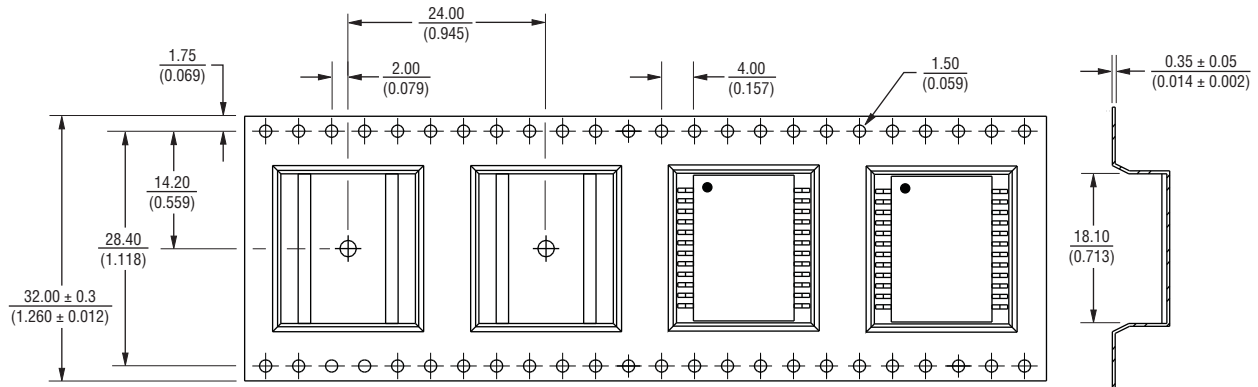
Applications

- LAN
- Ethernet
- Power over Ethernet - PoE

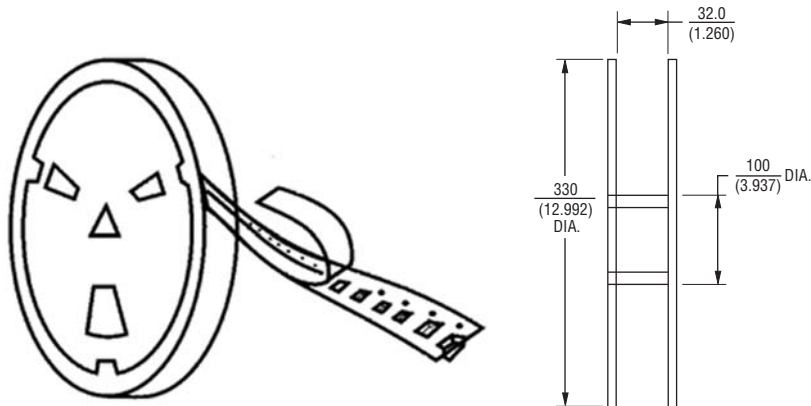
SM51589L LAN 10/100/1000 Base-T Transformer (PoE) Modules

BOURNS®

Packaging Specifications



USER DIRECTION OF FEED
QUANTITY: 400 PCS. PER REEL



DIMENSIONS: $\frac{\text{MM}}{(\text{INCHES})}$

BOURNS®

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REV. 09/14

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.

AMEYA360

Components Supply Platform

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