



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



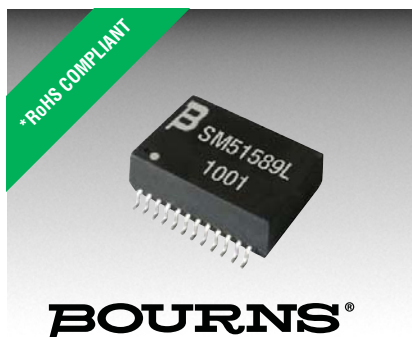
Contact us

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Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





Features

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

Applications

- LAN
- Ethernet
- Power over Ethernet - PoE

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

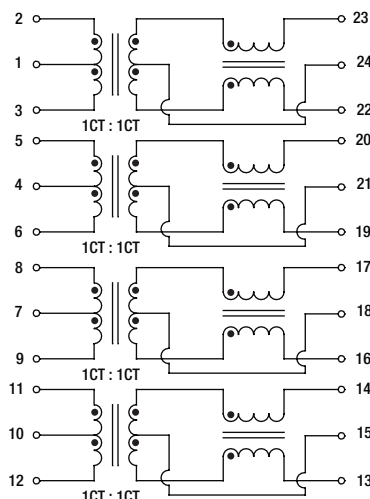
Tape & Reel..... 400 pcs./reel

How To Order

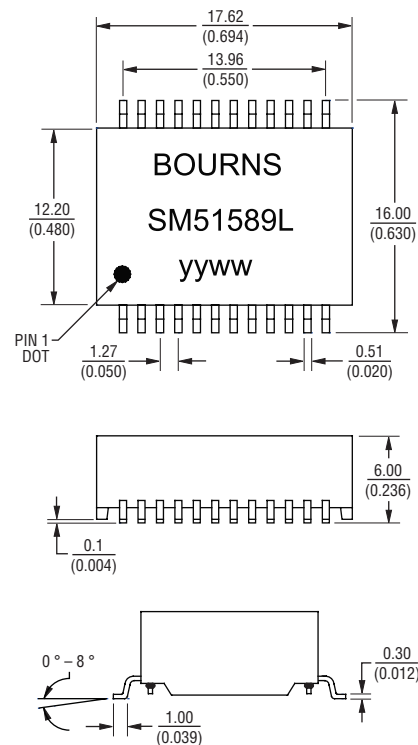
SM51589E L

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

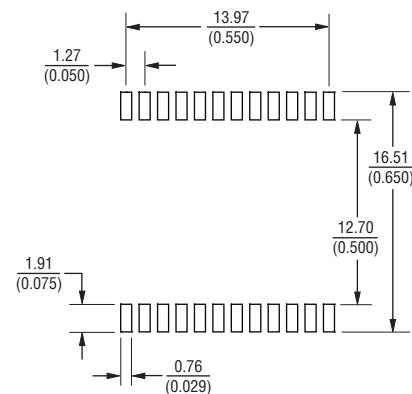
Electrical Schematic



Product Dimensions



Recommended Layout



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

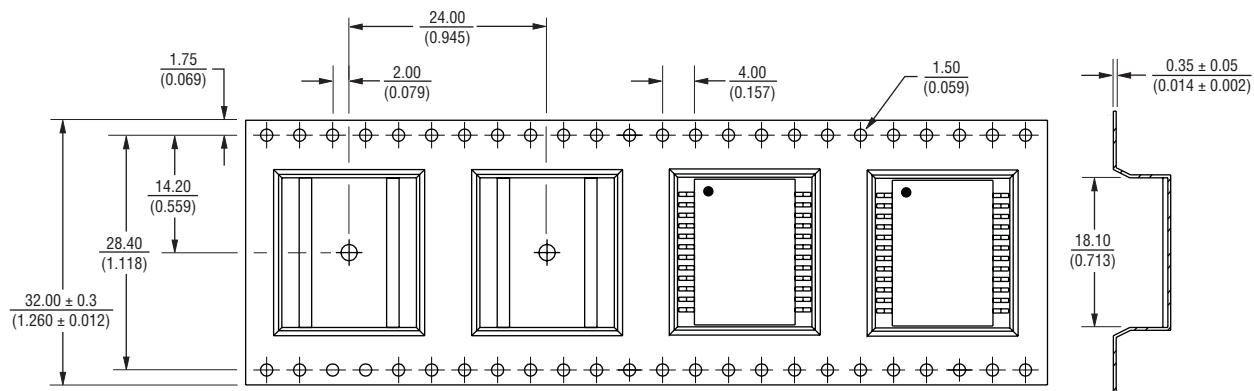
TOLERANCES: $\pm \frac{0.25}{(.010)}$

*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.
 Customers should verify actual device performance in their specific applications.

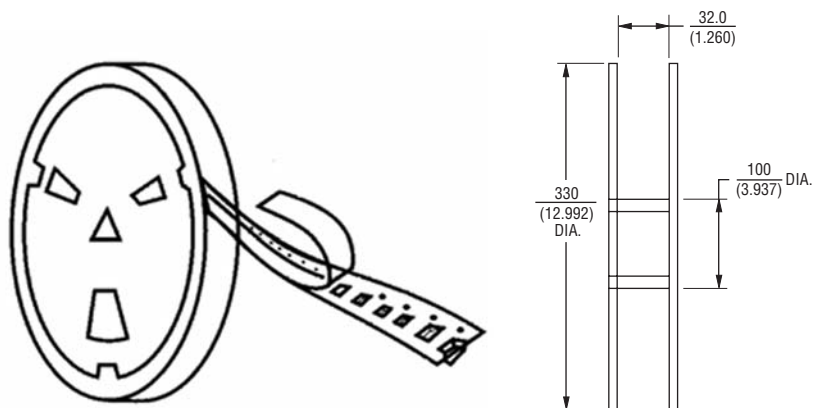
SM51589L LAN 10/100/1000 Base-T Transformer (PoE) Modules

BOURNS®

Packaging Specifications



USER DIRECTION OF FEED
QUANTITY: 400 PCS. PER REEL



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

BOURNS®

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