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Model SM51589L is obsolete and not recommended for new designs. Model SM51589PEL is a suggested alternative - see data sheet for specifications.

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 μH min.
- DCMR
  - 30 MHz: 43 dB min.
  - 60 MHz: 37 dB min.
  - 80 MHz: 33 dB min.
- PoE Current: Up to 600 mA DC 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
Packaging Specifications

Applications
- LAN
- Ethernet
- Power over Ethernet - PoE

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

Quantity: 400 PCS. PER REEL

DIMENSIONS: MM (INCHES)

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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.