

Electrical Specifications @ 25 °C

| Turns Ratio (±5 %)1CT:1CT |
|---|
| OCL (@100 kHz, |
| 0.1 V, 8 mA, DC Bias) 350 μ H min. Leakage Inductance |
| (@100 kHz, 0.1 V) 0.5 μH max. |
| Interwinding Capacitance |
| @ 100 kHz, 0.1 V35 pF max. |
| Isolation Hi-Pot 5000 VAC, 1 mA, |
| 2 seconds |
| Insertion Loss |
| 1-100 MHz1.0 dB max. |
| Return Loss (@ 100 Ohms) |
| 1-30 MHz18 dB min. |
| 40 MHz14.4 dB min. |
| 50 MHz13.1 dB min. |
| 60-80 MHz12 dB min. |
| 100 MHz10 dB min. |
| Cross Talk |
| 30 MHz45 dB min. |
| 60 MHz40 dB min. |
| 80 MHz35 dB min. |
| DCMR |
| 30 MHz43 dB min. |
| 60 MHz |
| 80 MHz33 dB min. |
| |
| PoE+ CurrentUp to 720 mADC |
| Operating Temperature Range |
| |
| Storage Temperature Range |
| -40 °C to +125 °C |
| Moisture Sensitivity Level |
| ESD Classification (HBM)N/A |
| |

Environmental Specifications

| Moisture Sensitivity Level | .1 |
|----------------------------|----|
| ESD Classification (HBM)N | /A |

Packaging Specifications

How To Order

| | SM51589 | Ρ | Е | L |
|-------------------------------------|------------|---|---|---|
| Model — | | | | |
| Construction — P = Potted | | | | |
| Packaging E = Tape and Reel (400 | pcs./reel) | | | |
| Termination | | | | |

L = Tin (RoHS Compliant)



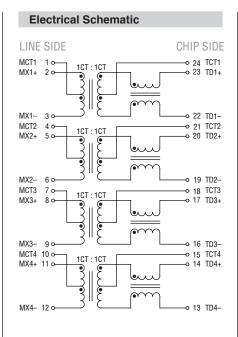
Features

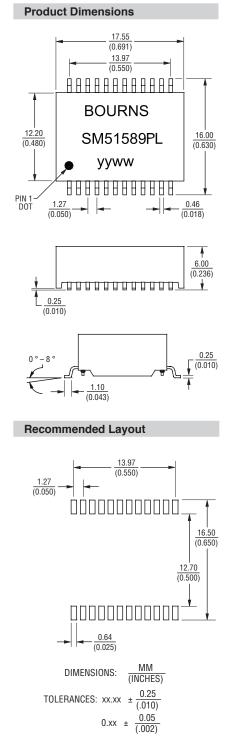
- Compliant with IEEE802.3 standards
- Designed for 10/100/1000 Base-T and PoE+
- 5K VAC dielectric withstanding voltage
- RoHS compliant*

Applications

- LAN
- Ethernet
- Power over Ethernet PoE

SM51589PEL LAN 10/100/1000 Base-T Transformer (PoE+) Modules





*RoHS Directive 2015/863, Mar 31, 2015 and Annex.

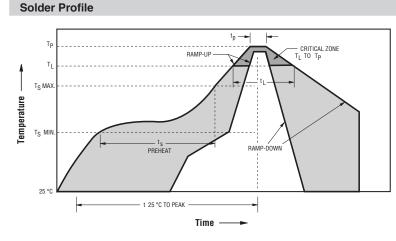
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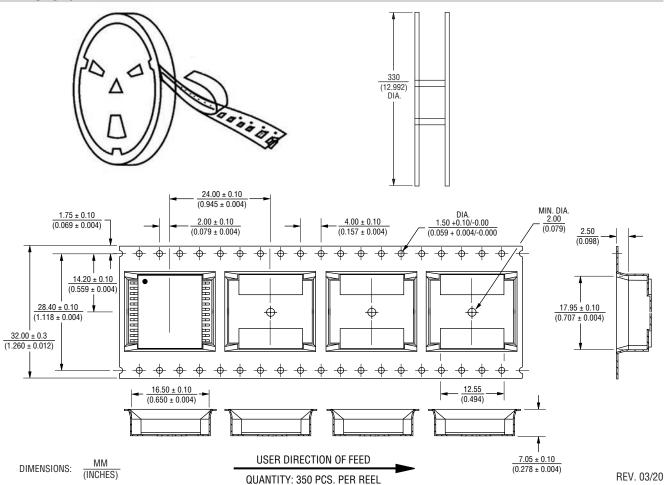
SM51589PEL LAN 10/100/1000 Base-T Transformer (PoE+) Modules

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Ramp-up rate = 3 °C/sec. max. Ramp-down rate = 6 °C/sec. max. $T_L = 217$ °C $t_L = 60-150$ sec. $T_p = 250$ °C ± 3 °C Time within 5 °C of actual Peak Temp $(t_p)2 = 20$ ~40 sec. $T_S min = 150$ °C Ts max = 200 °C $T_S min to T_S max = 60-180$ sec., 25 °C to Peak Temperature = 8 min. max.

Packaging Specifications



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