

LAN Transformer 1G Base-T PoE

Part No: TM82467NL

Description:

1G Base-T transformer Single Port and 24pin SMT with PoE

Features:

PoE (350mA) Compliant with IEEE 802.3af standard CMC + Transformer + CMC RoHS Compliant

Datasheet

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1.





Featuring a compatible footprint with industry LAN transformers, and designed to work in demanding industrial environmental conditions, the Taoglas TM82467NL is a LAN Transformer 1GBase-T Single Port of 24pins that is capable for PoE (350mA).

Typical applications for this cost-effective part are:

- Industrial Automation
- Hubs
- Routers
- Switches
- Wireless Access Points

The Taoglas Magnetics Product Team have over fifteen years of LAN magnetics design and high-quality manufacturing. With an ever-expanding portfolio, we provide trusted products and services to customers within a wide range of applications such as: Networking and Interconnect Devices, Servers, Switches, Router, Communication systems and any Digital Consumer electronics.

The Taoglas Exos Series offer an extensive product line of LAN Transformers designed for commercial and industrial grade applications, supporting 10/100 Base-T (Exos100 Series), 1G Base-T (Exos10G Series) and 10G Base-T (Exos10G Series). These products include Single, Dual, and Quad configurations not only for standard applications but also for Power over Ethernet (POE, POE+, POE++).

For more information on the range of products or for assistance with integration, contact your regional Taoglas customer support team.



Specifications

2.

| Electrical Performance @25°C | | | | | |
|------------------------------|-----------------------------|--|--|--|--|
| Inductance OCL | 350µH MIN @ 100KHz 0.2V 8mA | | | | |
| Turns Ratio (±5%) | 1CT: 1CT | | | | |
| Insertion Loss | 1-100MHz: -1.0dB Max | | | | |
| Return Loss (@Load 100Ω) | 1-30MHz: -18dB Min | | | | |
| | 40MHz: -14.4dB Min | | | | |
| | 50MHz: -13.1dB Min | | | | |
| | 60-80MHz: -12dB Min | | | | |
| | 100MHz: -10dB Min | | | | |
| | 30MHz: -45dB Min | | | | |
| Cross talk | 60MHz: -40dB Min | | | | |
| | 100MHz: -35dB Min | | | | |
| DCMR | 30MHz: -40dB Min | | | | |
| | 60MHz: -35dB Min | | | | |
| | 100MHz: -30dB Min | | | | |
| Hi-Pot | 1500Vrms Min | | | | |

Environmental Specifications

Operating Temperature

0°C TO +70°C

Compliance

RoHS Compliant

| Storage requirements | | | | |
|----------------------|----------------|--|--|--|
| Humidity | MSL - 1 | | | |
| Storage Temperature | -40°C TO +85°C | | | |

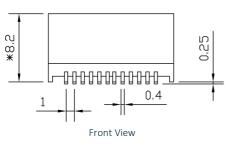


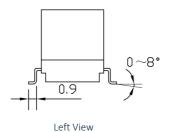
Mechanical

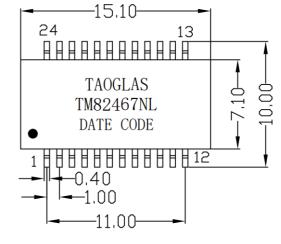


3.

Mechanical Drawings





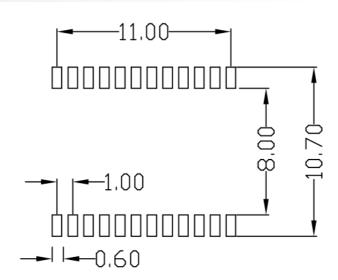


Top View

| Mechanical Specifications | | | | |
|---------------------------|----------------------------|--|--|--|
| 15.1 mm | | | | |
| 10 mm | | | | |
| 8.2 mm | | | | |
| Surface Mount (SMT) | | | | |
| | 15.1 mm 10 mm 8.2 mm | | | |

Dimensions are in millimeters with the following tolerances: X.XX = ± 0.25

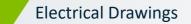
3.2 Pad Layout

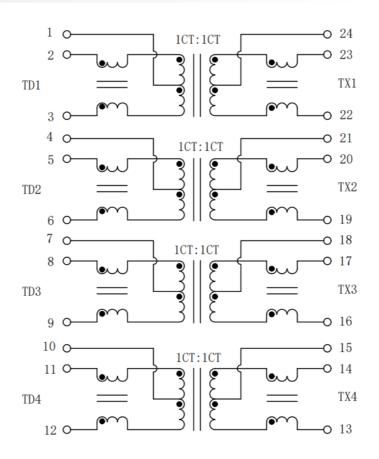


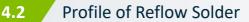


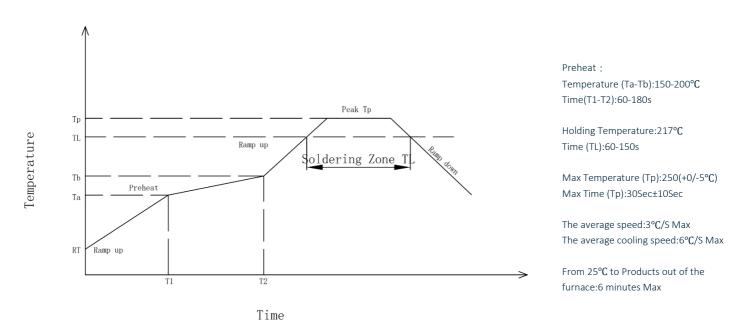


Electrical





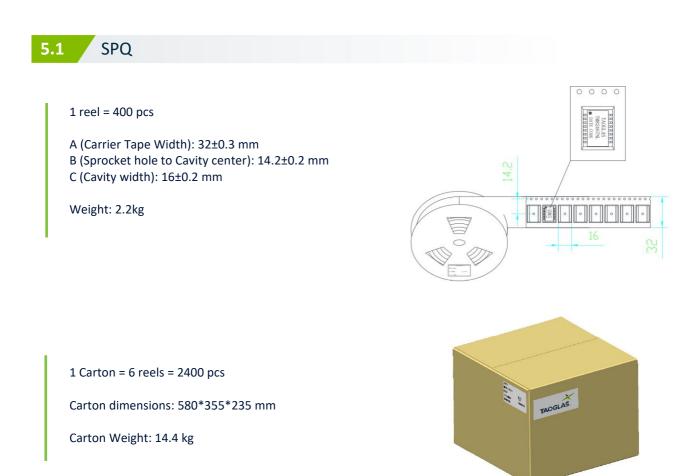




4.1



5. Packaging



5.2 Label

Taoglas Limited P/N NO: XXXXXXXX QYT: XXX PCS DC: XXXX DATE: XXXX-XX-XX Taoglas Limited P/N NO: XXXXXXXX PO: XXXXXXXX B/N: XXXXXXXX QYT: XXX PCS DC: XXXX

SPQ Label (8x4cm)

DATE: XXXX-XX-XX

Carton Label (8x4cm)

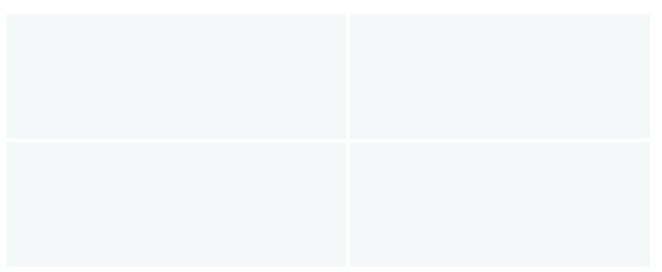


Changelog

Changelog for the datasheet

| SPE-23-8-168 – TM82467NL | | | | | |
|--------------------------|----------------------|------------------|--|--|--|
| | Revision: A (Origina | l First Release) | | | |
| | Date: | 2023-07-01 | | | |
| | Notes: | | | | |
| | Author: | Javier Vasena | | | |

Previous Revisions







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