



TAOGLAS®



Datasheet

LAN Transformer 1G Base-T PCMCIA

Part No:
TM9358-4ANL

Description:

1G Base-T Transformer
Single Port and 24pin SMT

Features:

PCMCIA
3 Wire + Transformer
Industrial grade
RoHS Compliant

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1. Introduction



Featuring a compatible footprint with industry LAN transformers, and designed to work in demanding industrial environmental conditions, the Taoglas TM9358-4ANL is a LAN Transformer 1G Base-T PCMCIA of 24pins.

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 (Exos1G 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.

2. Specifications

Electrical Performance @25°C	
Inductance OCL	350uH Min @100KHz/0.1V
Turns Ratio (±5%)	1CT: 1CT
Insertion Loss	1-100MHz: -1.1dB Max
Return Loss	1-40MHz: -18dB Min
	60MHz: -14dB Min
	80MHz: -12dB Min
	100MHz: -10dB Min
Crosstalk	30MHz: -50dB Min
	60MHz: -45dB Min
	100MHz: -35dB Min
Common Mode Rejection	1-100MHz: -40dB Typ
DC Resistance (TX/RX)	0.9Ω Max
Hi-Pot	1500Vrms Min

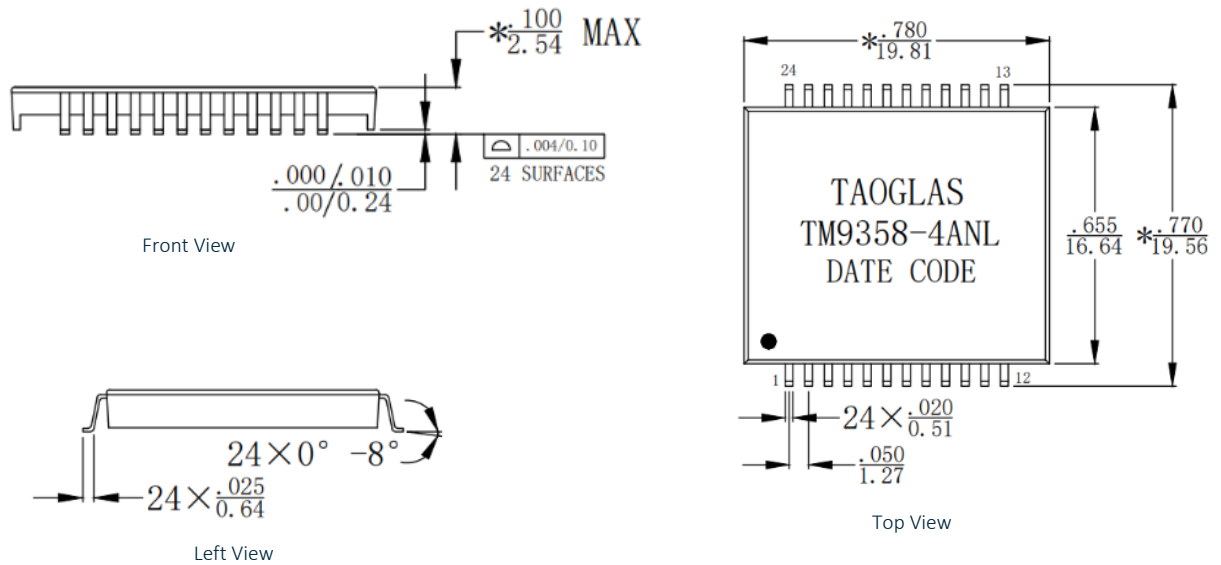
Environmental Specifications	
Operating Temperature	-40°C TO +85°C

Compliance	
RoHS Compliant	
UL recognized - FILE NO. E528697	
IEEE 802.3	

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

3. Mechanical

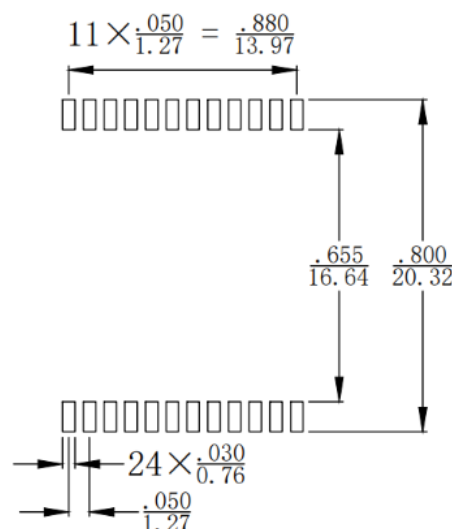
3.1 Mechanical Drawings



Mechanical Specifications	
Length	19.81 mm
Width	19.56 mm
Height	2.54 mm
Weight	0.97g
Mounting Style	Surface Mount (SMT)

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

3.2 Pad Layout

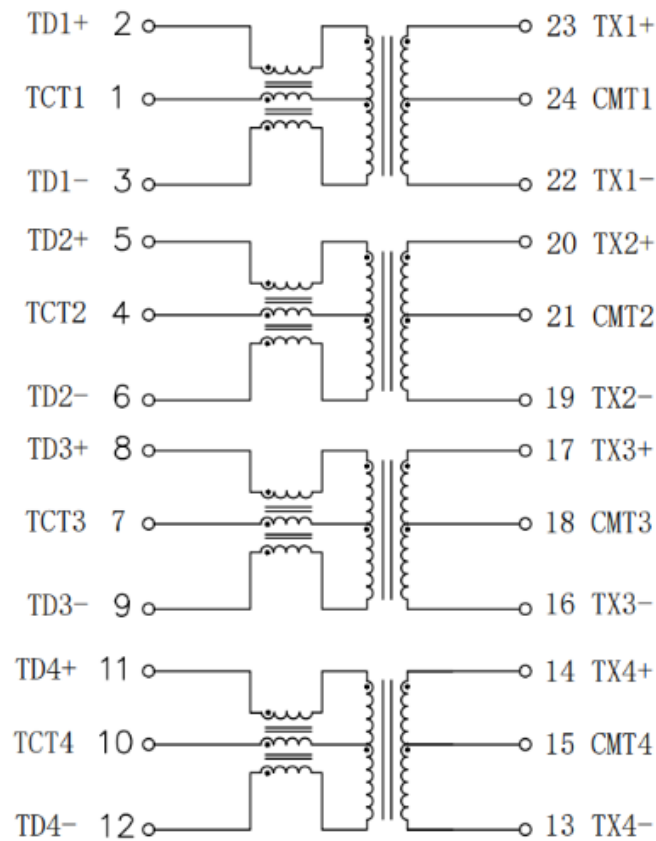


Suggested pad layout

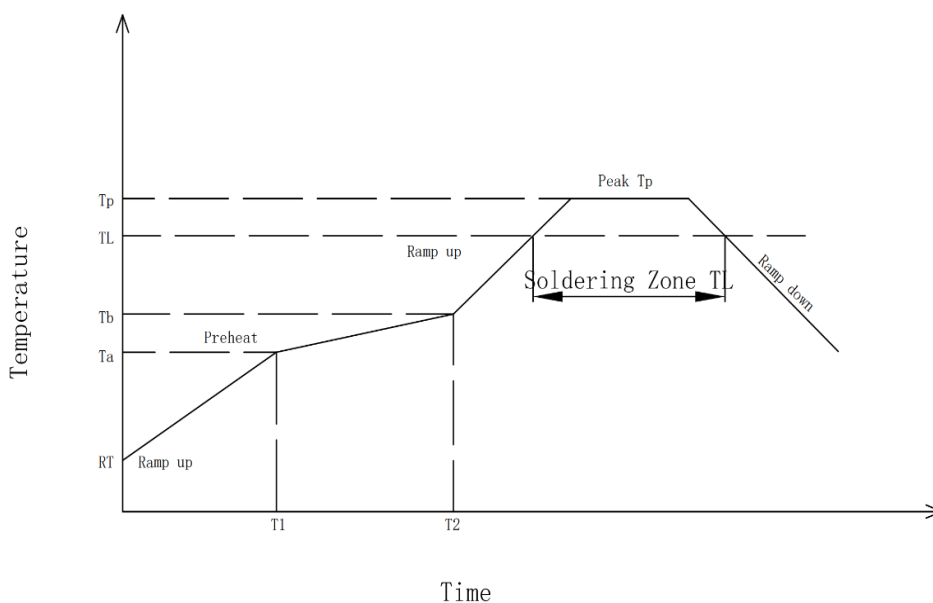
Dimensions are in millimeters with the following tolerances: X.XX = ±0.10

4. Electrical

4.1 Electrical Drawings



4.2 Profile of Reflow Solder



Preheat :
 Temperature (Ta-Tb):150-200°C
 Time(T1-T2):60-180s

Holding Temperature:217°C
 Time (TL):60-150s

Max Temperature (Tp): 250°C
 Max Time (Tp):5s

The average speed:3°C/S Max
 The average cooling speed:6°C/S Max

From 25°C to Products out of the
 furnace:6 minutes Max

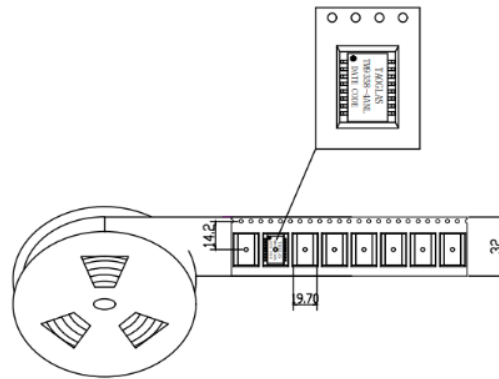
5. Packaging

5.1 SPQ

1 reel = 900 pcs

Reel (mm) = 32x19.7x14.2

Weight = 1.35kg



5.2 Carton

1 Carton = 4 reels = 3600 pcs

Carton dimensions: 360*360*250 mm

Carton Weight: 6.8 kg



5.3 Label

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

SPQ Label (8x4cm)

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

Carton Label (8x4cm)

Changelog

Changelog for the datasheet

SPE-23-8-372 – TM9358-4ANL

Revision: A (Original First Release)

Date:	2024-01-01
Notes:	
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Previous Revisions



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