



LAN Transformer 1G Base-T PoE+

Part No:

TM6164ANL

Description:

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

Features:

PoE+ (600mA)

3 Wire + Transforme
Industrial grade



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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 TM6164ANL is a 1G Base-T Single Port of 24pin with 3 Wire and Transformer which makes it suitable for PoE+ (600mA) applications.

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	120uH MIN @ 100KHz/0.1V with 18.3mA DC			
Turns Ratio	1CT: 1CT			
Insertion Loss	1-100MHz: -1.5dB			
	125MHz: -2.0dB			
Return Loss (dB Min)	1-40MHz: -18			
	60-80MHz: -12			
	100MHz: -10			
CMRR (dB Min)	2MHz: -50			
	10-60MHz: -44			
	100MHz: -40			
PoE	600mA current capability			
Hi-Pot	1500Vrms Min			

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

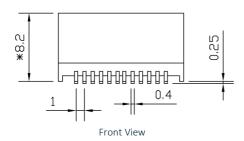
Compliance	
RoHS Compliant	

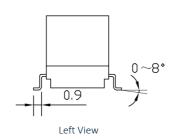
Storage requirements				
Humidity	MSL - 1			
Storage Temperature	-40°C TO +85°C			

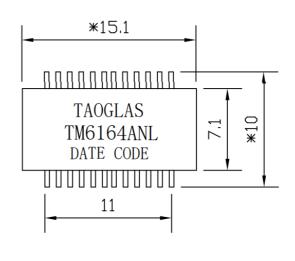


3. Mechanical

3.1 Mechanical Drawings





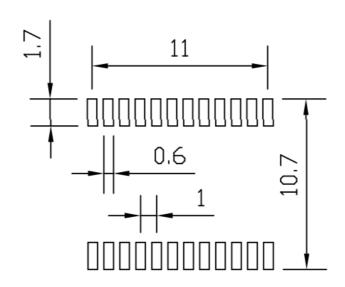


Top View

Mechanical Specifications				
Length	15.1 mm			
Width	10 mm			
Height	8.2 mm			
Mounting Style	Surface Mount (SMT)			

Dimensions are in millimeters with the following tolerances: $X.XX = \pm 0.25$

3.2 Pad Layout



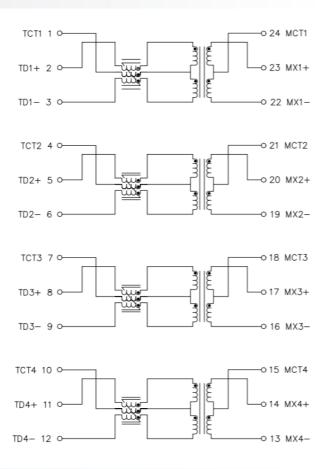
Suggested pad layout

Dimensions are in millimeters with the following tolerances: $X.XX = \pm 0.10$

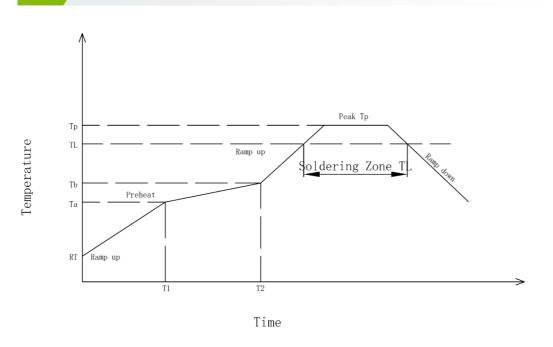


4. Electrical

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(+0/-5°C) Max Time (Tp):30Sec±10Sec

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

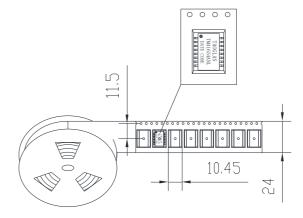
1 reel = 450 pcs

A (Carrier Tape Width): 24±0.3 mm

B (Sprocket hole to Cavity center): 11.5±0.2 mm

C (Cavity width): 10.45±0.2 mm

Weight: 1.15kg



1 Carton = 6 reels = 2700 pcs

Carton dimensions: 360*360*260 mm

Carton Weight: 7.05 kg



5.2 Label

Taoglas Limited

P/N NO: XXXXXXXX

QYT: XXX PCS DC: XXXX

SPQ Label (8x4cm)

Taoglas Limited

P/N NO: XXXXXXXX

DATE: XXXX-XX-XX

PO: XXXXXXXX B/N: XXXXXXXX

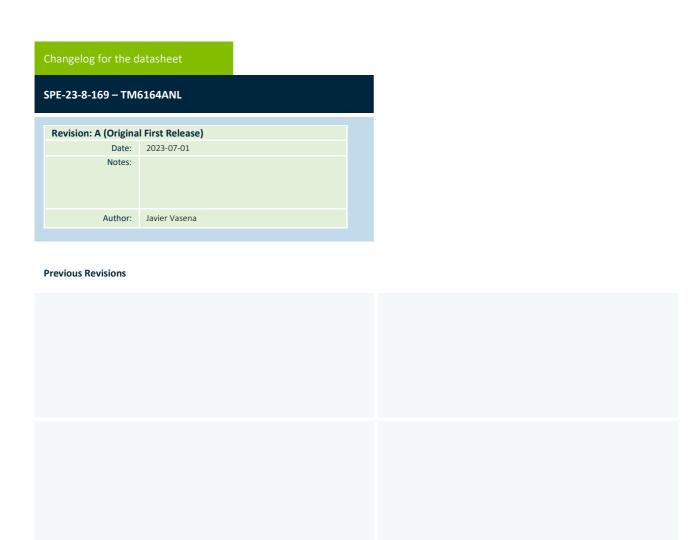
QYT: XXX PCS DC: XXXX

DATE: XXXX-XX-XX

Carton Label (8x4cm)



Changelog







www.taoglas.com

