



LAN Transformer 10G Base-T PoE+

Part No: TM7008NL

Description:

10G Base-T transformer Single Port and 24pin SMT with PoE+

Features:

PoE+ (600mA) RoHS & REACH Compliant

www.taoglas.com



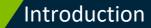
1.	Introduction	3
2.	Specifications	4
3.	Mechanical	5
4.	Electrical	6
5.	Packaging & Storage	7
	Changelog	8

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1.





Featuring a compatible footprint with industry LAN transformers, and designed to work in demanding industrial environmental conditions, the Taoglas TM7008NL is a 10GBase-T Single Port of 24pin.

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	120µH MIN @100KHz 0.1V 8mA DC Bias			
Turns Ratio (±2%)	TX=1CT: 1CT	RX=1CT: 1CT		
Insertion Loss	-3dB MAX @ 100Mhz			
	-1dB MAX (-0.6 dB TYP) @ 1-500Mhz			
Return Loss	-18dB MIN @ 1-40Mhz			
(Z OUT = 100 OHM ±1%)	-17+10*	LOG(f/40) @ 40-500Mhz		
Cross talk	-400	dB MIN @ 1-100Mhz		
	-30dE	3 MIN @ 100-500Mhz		
Common Mode Rejection Ratio	-35dB MIN @ 1-100Mhz			
	-30dB MIN @ 100-300Mhz			
	-25dB MIN @ 300-500Mhz			
Common to Differential Mode Rejection	-30dB MIN @ 1-250Mhz			
	-22dE	3 MIN @ 250-500Mhz		
Hi-Pot		1500Vrms MIN		
DC Current/Voltage Rating-PSE PINS	600mA	Max @57V (Continuous)		

Environmental Specifications

Operating Temperature

0°C TO +70°C

Compliance

UL recognized - FILE NO. E528697

RoHS Compliant

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

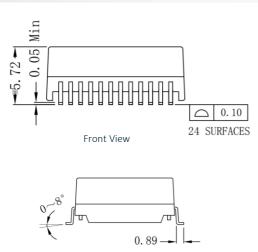


Mechanical

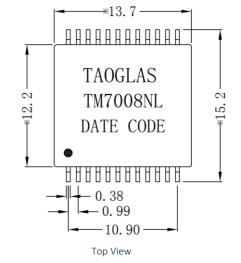


3.1

Mechanical Drawings



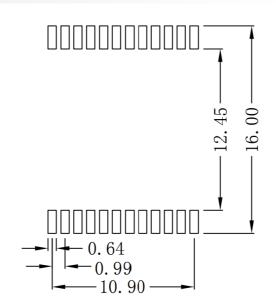
Left View



Mechanical Specifications					
Length	13.70 mm				
Width	15.20 mm				
Height	5.72 mm				
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

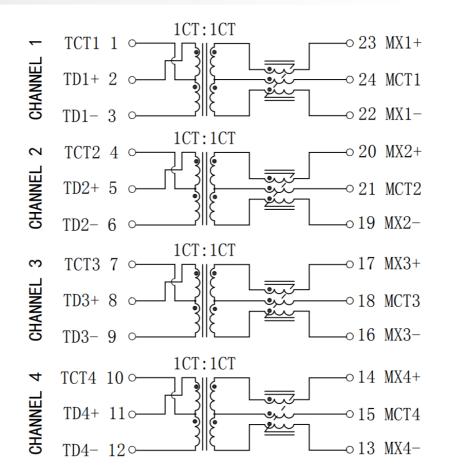


Electrical

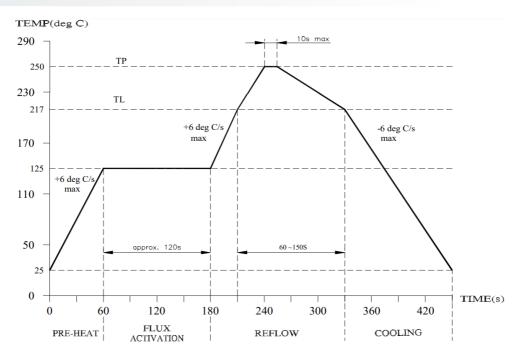
4.

4.1

Electrical Drawings

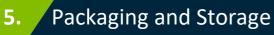


4.2 Profile of Reflow Solder



SPE-22-8-065-A



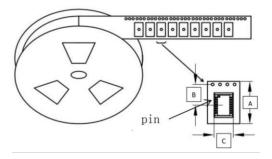


5.1 SPQ

450 pcs/reel

A (Carrier Tape Width): 24±0.3 mm B (Sprocket hole to Cavity center): 10.75±0.2 mm C (Cavity width): 14±0.2 mm

Reel weight: 1150g



1CTN = 4 reels = 1800 pcs

Carton dimensions: 370*370*250mm

Carton Weight: 6.5kg



Changelog

Changelog for the datasheet

SPE-22-8-065 - TM7008NL

Revision: A (Original First Release)		
Date:	2022-11-08	
Notes:		
Author:	Javier Vasena	

Previous Revisions

