



LAN Transformer 10G Base-T PoE+

Part No: TM7008ANL

Description:

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

Features:

PoE+ (600mA) Industrial grade RoHS & REACH Compliant



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

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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 TM7008ANL is an LAN Transformer 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 (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	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) @ 100Mhz			
Return Loss	-18dB N	MIN @ 1-500Mhz		
$(Z OUT = 100 OHM \pm 1\%)$	-18dB MIN @ 1-40Mhz			
	-17+10*LO0	G(f/40) @ 40-500Mhz		
Cross talk	-40dB f	MIN @ 1-100Mhz		
	-30dB M	IIN @ 100-500Mhz		
Common Mode Rejection Ratio	-35dB N	MIN @ 1-100Mhz		
	-30dB M	IIN @ 100-300Mhz		
	-25dB M	IIN @ 300-500Mhz		
Common to Differential Mode Rejection	-30dB I	MIN @ 1-250Mhz		
	-22dB M	IIN @ 250-500Mhz		
Hi-Pot	1500Vrms MIN			
DC Current/Voltage Rating-PSE PINS	600mA Ma	x @57V (Continuous)		

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

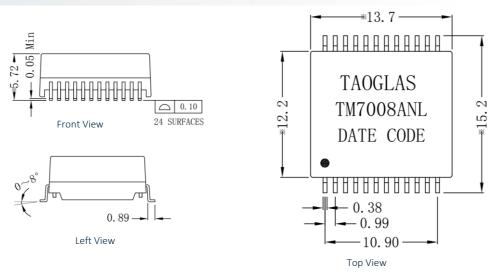
Compliance
UL recognized - FILE NO. E528697
RoHS Compliant

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



3. Mechanical

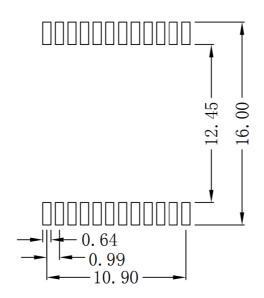
3.1 Mechanical Drawings



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: $X.XX = \pm 0.25$

3.2 Pad Layout

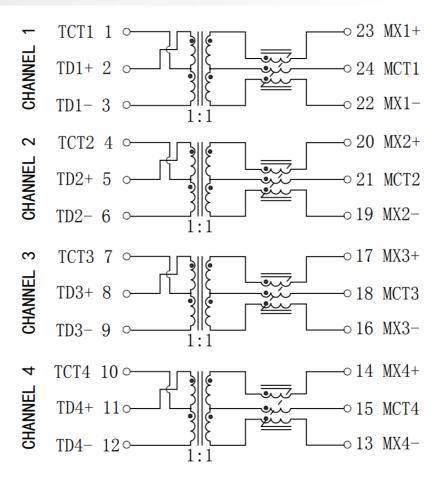


Suggested Pad Layout Dimensions are in millimeters with the following tolerances: $X.XX = \pm 0.10$

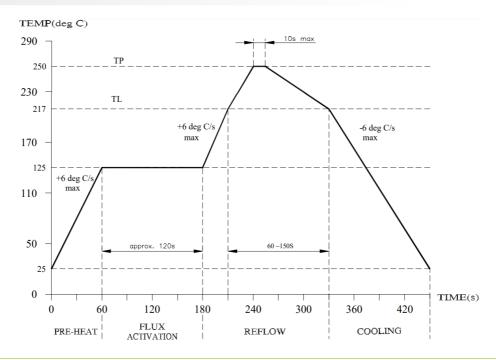


4. Electrical

4.1 Electrical Drawings



4.2 Profile of Reflow Solder





5. Packaging and Storage

5.1 SPQ

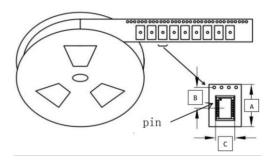
450 pcs/reel

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

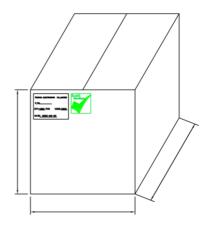
Reel weight: 1150g



1CTN = 4 reels = 1800 pcs

Carton dimensions: 370*370*250mm

Carton Weight: 6.5kg





Changelog

