



LAN Transformer 1G Base-T PCMCIA

Part No: TM82453NL

Description:

1000 Base-T/1G transformer Single Port and 24pin SMT with low-profile PCMCIA

Features:

AutoMDIX PCMCIA RoHS & REACH Compliant

www.taoglas.com



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

Taoglas makes no warranties based on the accuracy or completeness of the contents of this document and reserves the right to make changes to specifications and product descriptions at any time without notice. Taoglas reserves all rights to this document and the information contained herein. Reproduction, use or disclosure to third parties without express permission is strictly prohibited.





1. Introduction



Featuring a compatible footprint with industry LAN transformers, and designed to work in demanding industrial environmental conditions, the Taoglas TM82453NL is an LAN Transformer 1GBase-T Single Port of 24pin suitable of AutoMDIX feature.

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



2. Specifications

	Electrical Performance @25°C				
Inductance OCL	320µH MIN @ 100KHz 0.1V 8mA DC Bias				
Turns Ratio (±3%)	TX=1CT: 1CT	RX=1CT: 1CT			
Insertion Loss	-1dB MAX @ 0.3-100Mhz				
Return Loss	-18dB MIN @ 0.3-30Mhz				
	-15.5dB MI	N @ 40Mhz			
	-13.5dB MI	N @ 50Mhz			
	-10dB MIN (@ 60-80Mhz			
Cross talk	-38dB MIN @	9 0.3-100Mhz			
DCMR	DCMR -43dB MIN @ 30Mhz -37dB MIN @ 60Mhz	N @ 30Mhz			
		N @ 60Mhz			
	-33dB MIN	@ 100Mhz			
Hi-Pot	1500	Vrms			
Operating voltage	3.3-5V M	ax 350mA			

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

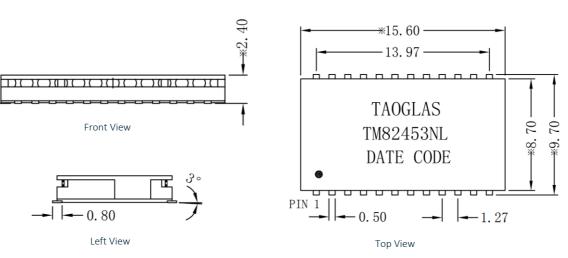


Mechanical

3.



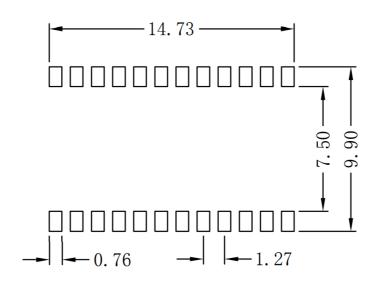
-0.03



-			
Mecha	nical Specifications		
Length	16.60 mm		
Width	9.70 mm		
Height	2.40 mm		
Mounting Style	Surface Mount (SMT)		

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



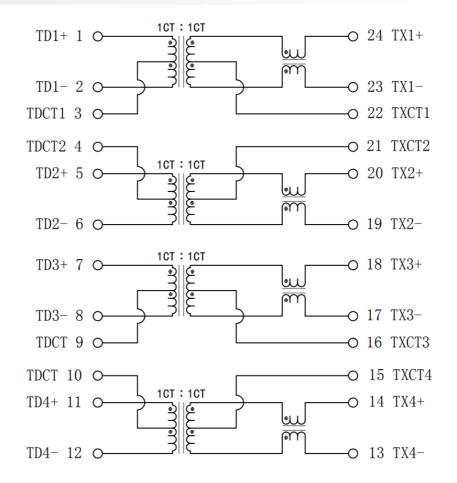


Suggested Pad Layout Dimensions are in millimeters with the following tolerances: X.XX = ± 0.10

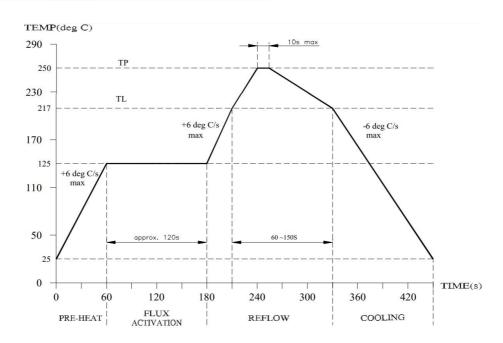


Electrical

Electrical Drawings



4.2 Profile of Reflow Solder



4.





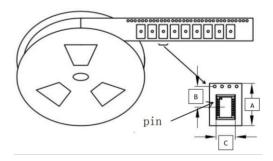
Packaging and Storage

5.1 SPQ

1400 pcs/reel

A (Carrier Tape Width): 24±0.3 mm B (Sprocket hole to Cavity center): 11.5±0.2 mm C (Cavity width): 10.3±0.2 mm

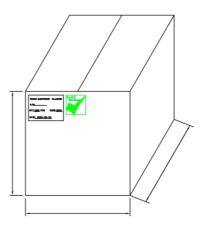
Reel weight: 1350g



1CTN = 6 reels = 8400 pcs

Carton dimensions: 370*370*250mm

Carton Weight: 8kg





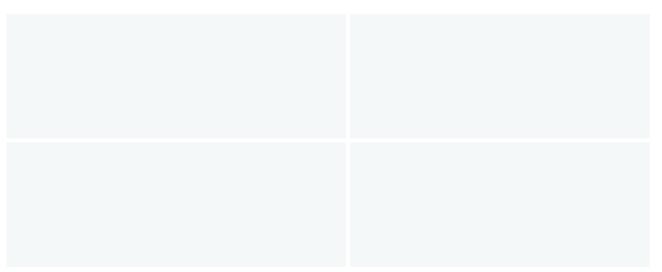
Changelog

Changelog for the datasheet

SPE-22-8-064 – TM82453NL

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

Previous Revisions







www.taoglas.com