



LAN Transformer 10/100Base-T Quad

Part No: TM1234NL

Description

LAN 10/100 Base-T transformer Quad Port and 40pin SMT

Features

CMC/Cable
AutoMDIX
Industrial grade
RoHS & REACH Compliant



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Featuring compatible footprint with industry LAN transformers and designed to work in industrial environmental conditions, the Taoglas TM1234NL is an LAN Transformer 10/100Base-T Quad Port of 40pin with Common Mode Choke on the cable side which makes it 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 (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	350μH MIN @ 100KHz 0.1V 8mA DC Bias				
Turns Ratio (±2%)	TX=1CT: 1CT	RX=1CT: 1CT			
DCR	1.2 Ω MAX				
Insertion Loss	-1.4dB MAX @ 0.1-100Mhz				
	-18dB MIN	@ 2-30Mhz			
Return Loss	-14.4dB MIN	@ 30-40Mhz			
	-13.1dB MIN	@ 40-50Mhz			
	-12dB MIN (@ 50-80Mhz			
	-55dB MIN (@ 0-0.1Mhz			
Cross talk	-45dB MIN @	ຼື 0.1-30Mhz			
	-40dB MIN @ 30-60Mhz				
	-33dB MIN @	9 60-100Mhz			
DCMR (dB MIN)	-37dB MIN	@ 1-60Mhz			
	-25dB MIN @	9 60-200Mhz			
Hipot	1500	Vrms			

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

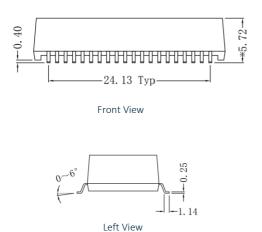
Compliance
UL recognized - FILE NO. E528697
RoHS Compliant

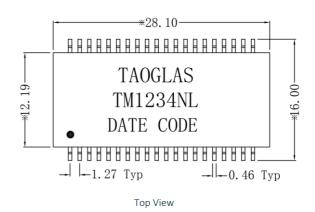
Storage requirements				
Humidity	Storage Temperature			
MSL - 1	-40°C TO +85°C			



3. Mechanical

3.1 Mechanical Drawings

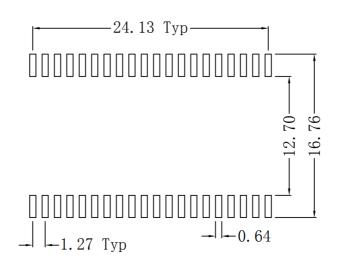




Mechanical Specifications				
Length	28.10mm			
Width	16.00mm			
Height	5.72mm			
Mounting Style	Surface Mount (SMT)			

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

3.2 Pad Layout

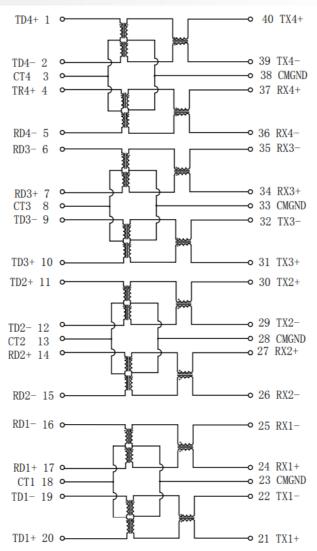


 $\label{eq:Suggested} \mbox{Suggested Pad Layout}$ Dimensions are in millimeters with the following tolerances: X.XX = ± 0.10

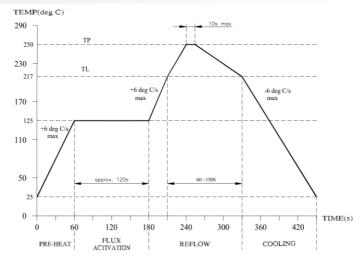


4. Electrical

4.1 Electrical Drawings



4.2 Profile of Reflow Solder



COMPONENT BODY REFLOW TEMPERATURE PROFILE



5. Packaging and Storage

5.1 SPQ

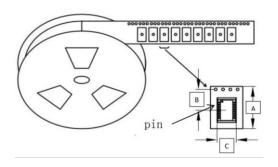
1200 pcs/reel

A (Carrier Tape Width): 44±0.3 mm

B (Sprocket hole to Cavity center): 20.2±0.2 mm

C (Cavity width): 16.6±0.2 mm

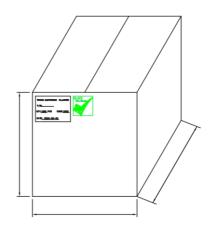
Reel weight: 1150 g



1CTN = 4 reels = 1600 pcs

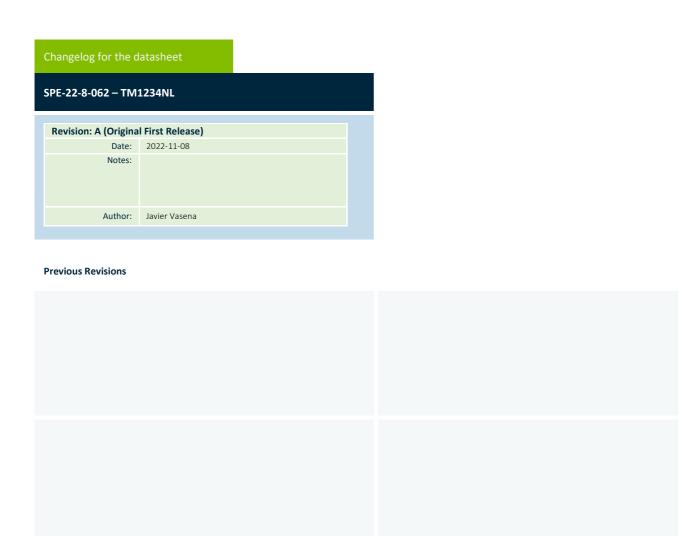
Carton dimensions: 370*370*250mm

Carton Weight: 8 kg





Changelog







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