



LAN Transformer 10/100 Base-T Dual Port

Part No: TM23105NL

Description:

10/100 Base-T Transformer Dual Port and 24pin SMT

Features:

Transformer + CMC Industrial grade RoHS Compliant



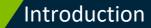
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1.





Featuring a compatible footprint with industry LAN transformers, and designed to work in demanding industrial environmental conditions, the Taoglas TM23105NL is a LAN Transformer 10/100 Base-T Dual Port of 24pins.

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

Electrical Performance @25°C	
OCL	350uH Min @100KHz 100mV 8mADC Bias
Turns Ratio	1CT: 1CT
Insertion Loss	0.1-100MHz: -1.2dB TYP
Return Loss (dB MIN)	2-30MHz: -16
	40MHz: -14
	50MHz: -13.5
	60-80MHz: -10
Crosstalk (dB TYP)	1MHz: -55
	30MHz: -45
	60MHz: -40
	100MHz: -35
DCMR (dB TYP)	1-60MHz: -30
	60-200MHz: -20
Hi-Pot	1500Vrms

Environmental Specifications	
5°C	
5°C	

Compliance
RoHS Compliant
UL recognized - FILE NO. E528697
IEEE 802.3

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

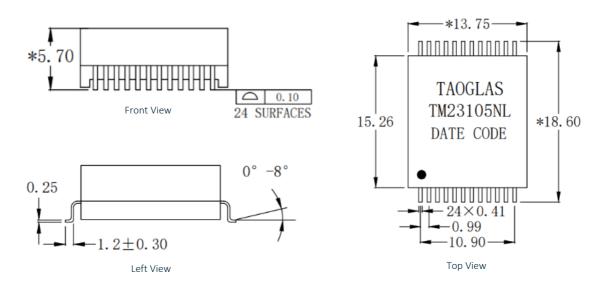
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Mechanical

3.

3.1 Mechanical Drawings



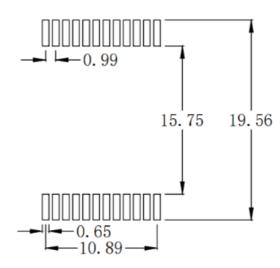
Mecha	nical Specifications
Length	13.75 mm
Width	18.60 mm
Height	5.70 mm
Weight	1.52 g
Mounting Style	Surface Mount (SMT)

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

Pad Layout

SPE-23-8-373-A

3.2



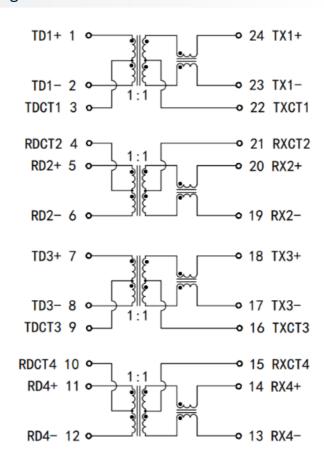
Suggested pad layout Dimensions are in millimeters with the following tolerances: X.XX = ± 0.10



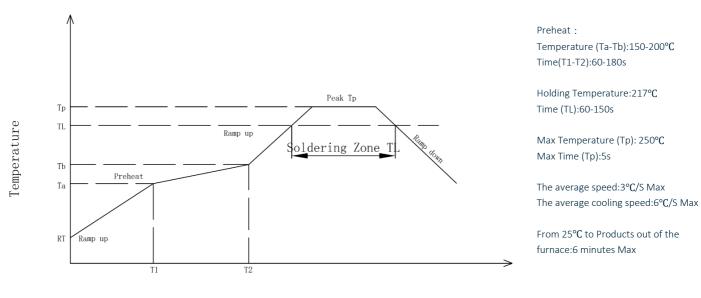
Electrical

4.



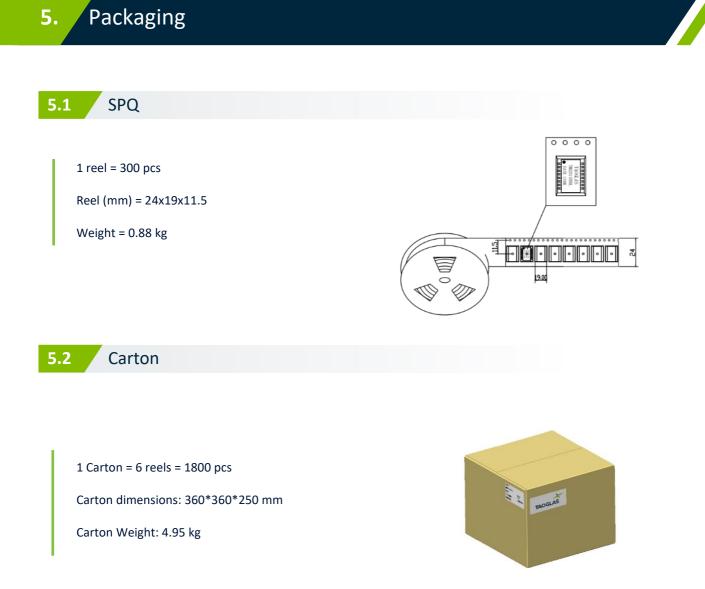














Taoglas Lin	nited	
P/N NO: XXXXXXXX		
QYT: XXX PCS	DC:	XXXX

SPQ Label (8x4cm)

DATE: XXXX-XX-XX

Taoglas	s Limited
P/N NO: XXXXXXXX	
PO: XXXXXXXX	B/N: XXXXXXXX
QYT: XXX PCS	DC: XXXX
DATE: XXXX-XX-XX	

Carton Label (8x4cm)



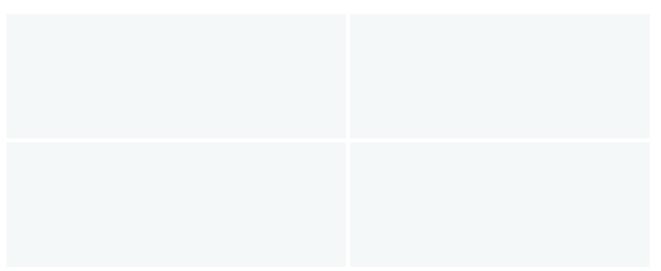
Changelog

Changelog for the datasheet

SPE-23-8-373 – TM23105NL
Revision: A (Original First Release)

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Date:	2024-01-01
Notes:	
Author:	Javier Vasena

Previous Revisions







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