



Datasheet

LAN Transformer 10/100Base-T

Part No: TM1198NL

Description:

LAN 10/100 Base-T transformer Single Port and 16pin SMT

Features:

CMC/Phy AutoMDIX Industrial grade RoHS & REACH Compliant

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

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Featuring compatible footprint with industry LAN transformers and designed to work in industrial environmental conditions, the Taoglas TM1198NL is a 10/100Base-T Single Port of 16pin 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

Ele	ctrical Performance @25°C
Inductance OCL	350μH MIN @ 100KHz 0.1V 8mA DC Bias
Turns Ratio (±5%)	1CT: 1CT
Insertion Loss	-1.1dB MAX @ 0.3-100Mhz
	-18dB MIN @ 0.3-30Mhz
Return Loss	-16dB MIN @ 40Mhz
	-14.5dB MIN @ 50Mhz
	-12 MIN @ 60-80Mhz
Cross talk	-42dB MIN @ 0.3-60Mhz
	-35dB MIN @ 60-100Mhz
	-40dB MIN @ 0.3-30Mhz
Common Mode Rejection (dB Min)	-35dB MIN @ 60Mhz
	-30dB MIN @ 80-100Mhz
Hi-Pot	1500Vrms

Environmental Specifications

Operating Temperature

-40°C TO +85°C

Compliance UL recognized - FILE NO. E528697 RoHS compliant

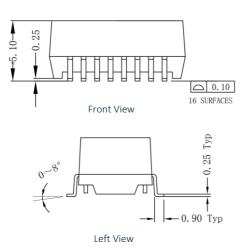
Storage requirements	
Humidity	Storage Temperature
MSL - 1	-40°C TO +85°C

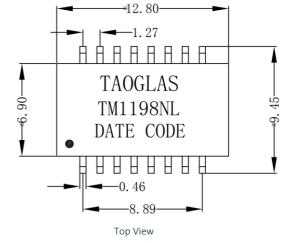


Mechanical

3.

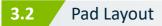


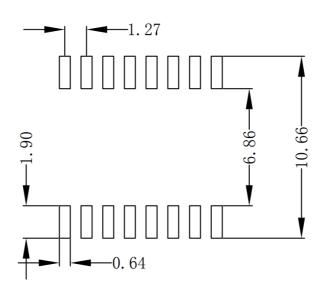




Mecha	nical Specifications	
Length	12.8 mm	
Width	9.45 mm	
Height	5.10 mm	
Mounting Style	Surface Mount (SMT)	

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





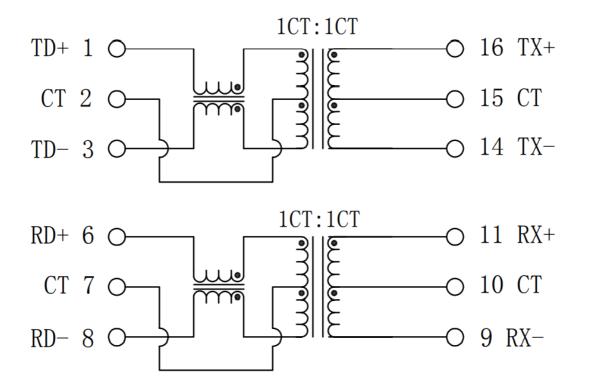
Suggested Pad Layout Dimensions are in millimeters with the following tolerances: X.XX = ± 0.10



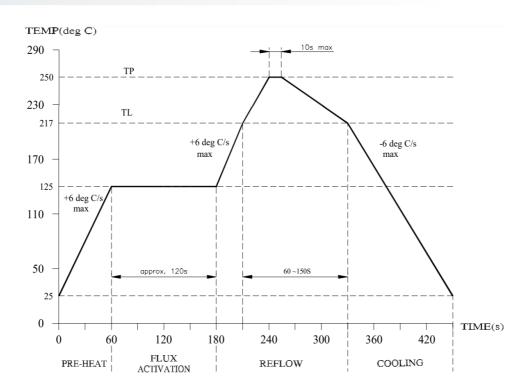
Electrical

4.





4.2 Profile of Reflow Solder





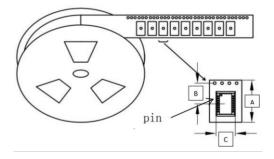


5.1 SPQ

600 pcs/reel

A (Carrier Tape Width): 24±0.3 mm B (Sprocket hole to Cavity center): 11.6±0.2 mm C (Cavity width): 10.6±0.2 mm

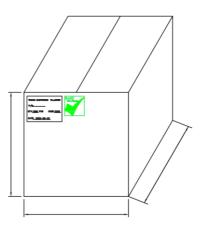
Reel weight: 800 g



1CTN = 6 reels = 3600 pcs

Carton dimensions: 370*370*250mm

Carton Weight: 7 kg





Changelog

Changelog for the datasheet

SPE-22-8-071 – TM	1198NL
Revision: C	
Date:	2023-07-28
Notes:	Electrical performance specs updates
Author:	Javier Vasena

Previous Revisions

Revision: A (Origina	l First Release)
Date:	2022-11-08
Notes:	
Author:	Javier Vasena
Revision: B	
Date:	2023-02-13
Notes:	SPQ specs updates
Author:	Javier Vasena





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