



LAN Transformer 1G Base-T

Part No: TM5008ANLE

Description:

1000 Base-T/1G transformer Single Port and 24pin SMT

Features:

Auto Transformer Industrial grade RoHS & REACH Compliant

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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 TM5008ANLE is an LAN Transformer 1GBase-T Single Port of 24 pin with Auto Transformer feature that will provide better EMI performance.

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

2.

Electrical Performance @25°C						
Inductance OCL	350μH MIN @ 100KHz 0.1V 8mA DC Bias					
Turns Ratio (±2%)	TX=1CT: 1CT	RX=1CT: 1CT				
Insertion Loss	-1dB MAX @ 1-100Mhz					
Return Loss	-18dB MIN @ 1-30Mhz					
	-18dB MIN @ 40Mhz					
	-16dB MIN @ 50Mhz					
	-12dB MIN @ 60-80Mhz					
	-10dB MIN	l @ 100Mhz				
Cross talk	-45dB MIN @ 30Mhz					
	-40dB MIN @ 60Mhz					
	-33dB MIN @ 100Mhz					
DCMR (dB MIN)	-43dB MIN @ 30Mhz					
	-37dB MIN @ 60Mhz					
	-33dB MIN	l @ 100Mhz				
Hi-Pot 1500Vrms MIN		rms MIN				

Environmental Specifications

Operating Temperature

-40°C TO +85°C

Compliance

UL recognized - FILE NO. E528697

RoHS Compliant

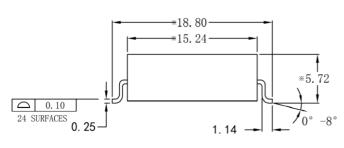
Storage requirements				
Humidity	Storage Temperature			
MSL - 1	-40°C TO +85°C			



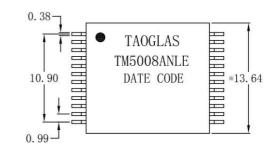
Mechanical

3.

3.1 Mechanical Drawings



Left View

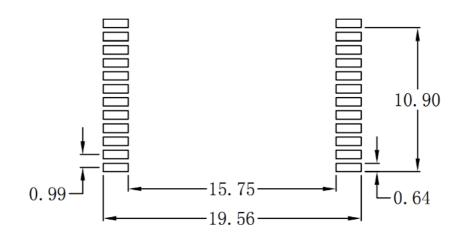


Top View

Mechanical Specifications					
Length	13.64 mm				
Width	18.80 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 = ± 0.10

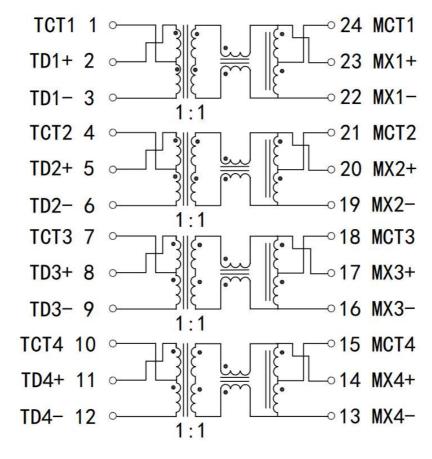


Electrical

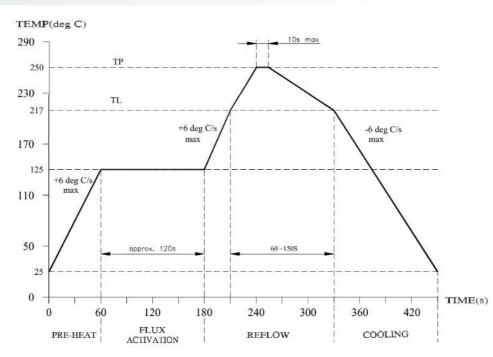
4.

4.1

Electrical Drawings



4.2 Profile of Reflow Solder







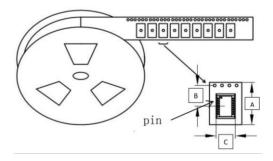
Packaging and Storage

5.1 SPQ

350 pcs/reel

A (Carrier Tape Width): 24±0.3 mm B (Sprocket hole to Cavity center): 11.5±0.2 mm C (Cavity width): 19.2±0.2 mm

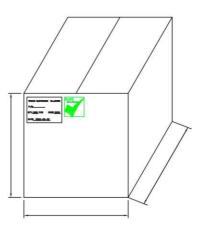
Reel weight: 850g



1CTN = 6 reels = 2100 pcs

Carton dimensions: 370*370*250mm

Carton Weight: 7kg

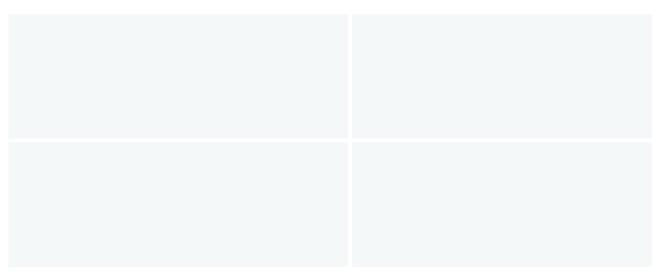




Changelog

Changelog for the datasheet					
SPE-22-8-063 – TM5008ANLE					
Revision: A (Origina	l First Release)				
Date:	2022-11-08				
Notes:					
Author:	Javier Vasena				

Previous Revisions







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