

ATOS DE LA CARACTER DE LA COMPANY



### LAN Transformer 1G Base-T

Part No: TM6173-5ANL

#### Description:

1G Base-T Transformer Single Port and 24pin SMT

#### Features:

Transformer + CMC + Auto Transformer Industrial grade RoHS Compliant

Datasheet



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### 1.





Featuring a compatible footprint with industry LAN transformers, and designed to work in demanding industrial environmental conditions, the Taoglas TM6173-5ANL is a LAN Transformer 1G Base-T 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.



## 2. Specifications

Elect	rical Performance @25°C
Inductance OCL	350uH Min @100KHz/0.1V
Turns Ratio (±5%)	1CT: 1CT
Insertion Loss (dB MAX)	0.1MHz: -1.1
	100MHz: -1.0
	125MHz: -2.0
Return Loss (dB MIN @100Ω±15%)	30MHz: -18
	60MHz: -12
	80MHz: -12
	100MHz: -10
Crosstalk (dB MIN)	30MHz: -43
	60MHz: -37
	100MHz: -33
Hi-Pot	1500Vrms Min

#### Environmental Specifications

#### Operating Temperature

-40°C TO +85°C

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

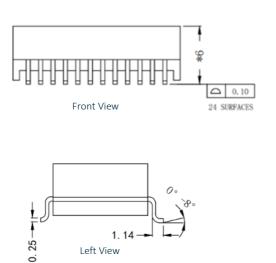
	Storage requirements
Humidity	MSL - 1
Storage Temperature	-40°C TO +85°C

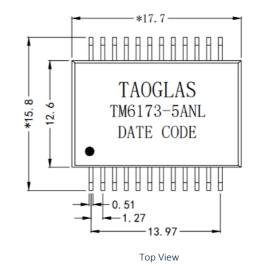


### Mechanical

3.

#### 3.1 Mechanical Drawings



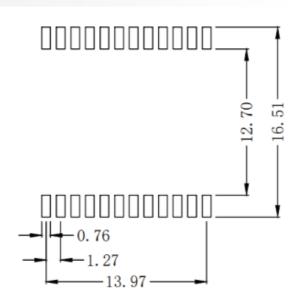


Mecha	nical Specifications	
Length	17.7 mm	
Width	15.8 mm	
Height	6 mm	
Weight	1.8 g	
Mounting Style	Surface Mount (SMT)	

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

#### 3.2

Pad Layout

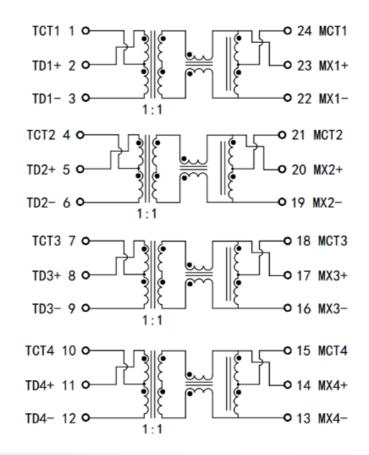


Suggested pad layout Dimensions are in millimeters with the following tolerances: X.XX =  $\pm 0.10$ 

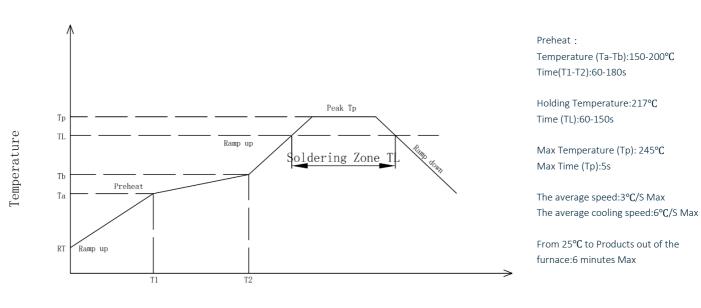


### Electrical

#### Electrical Drawings



#### 4.2 Profile of Reflow Solder

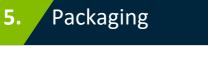


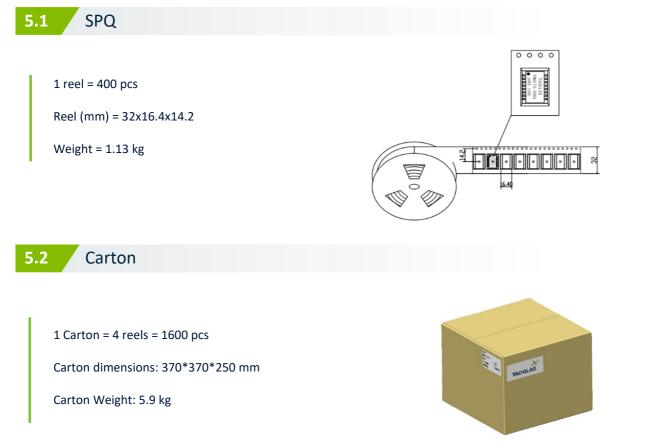


4.1

4.







#### Label 5.3

Taogl	as Limited	
P/N NO: XXXXXXXX		
QYT: XXX PCS	DC: XXXX	SPQ Label (8x4cm)
DATE: XXXX-XX-XX		
Taog	as Limited	
P/N NO: XXXXXXXX		

PO: XXXXXXXX QYT: XXX PCS DATE: XXXX-XX-XX

B/N: XXXXXXXX

DC: XXXX

Carton Label (8x4cm)



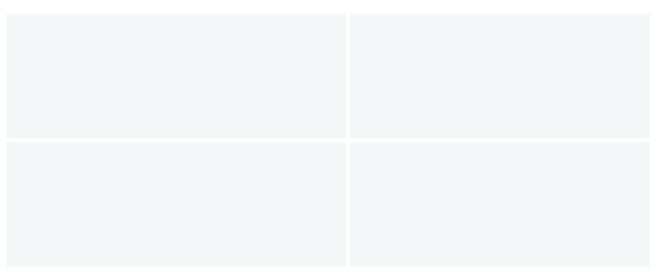
## Changelog

Changelog for the datasheet

SPE-23-8-371 – TM6173-5ANL

Revision: A (Original First Release)		
Date:	2024-01-01	
Notes:		
Author:	Javier Vasena	

#### **Previous Revisions**







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