



LAN Transformer 2.5G Base-T

Part No: TMU24C01

Description:

2.5G Base-T transformer Single Port and 24pin SMT

Features:

Transformer + CMC



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

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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 TMU24C01 is a 2.5G Base-T Single Port of 24pin with Transformer and Common Mode Choke.

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	180uH Min. @	9100KHz/0.1V			
Turns Ratio (±3%)	TX=1CT: 1CT	RX=1CT: 1CT			
D.C.R:	1.0 ohm Max				
Insertion Loss	-1.0dB Max@1-100MHz				
	-1.5dB Max@100-125MHz				
Return Loss	-16dB Min @1-40MHz				
	-16+10log(f/40) dE	3 Min@40-250MHz			
Crosstalk	-30dB Min(@1-125MHz			
CMRR	-30dB Min(@1-125MHz			
Hi-Pot	1500	Vrms			

Environmental Specifications				
Operating Temperature	0°C TO +70°C			

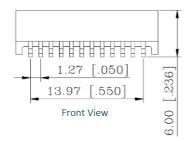
Compliance
UL recognized - FILE NO. E528697
RoHS Compliant

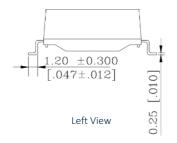
Storage requirements			
Humidity	MSL - 1		
Storage Temperature	-25°C TO +105°C		

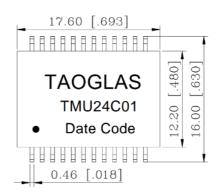


3. Mechanical

3.1 Mechanical Drawings





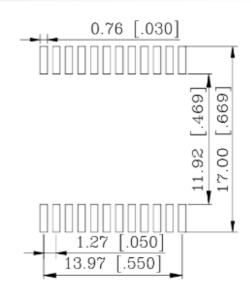


Top View

Mechanical Specifications				
Length	17.6 mm			
Width	16 mm			
Height	6 mm			
Mounting Style	Surface Mount (SMT)			

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

3.2 Pad Layout



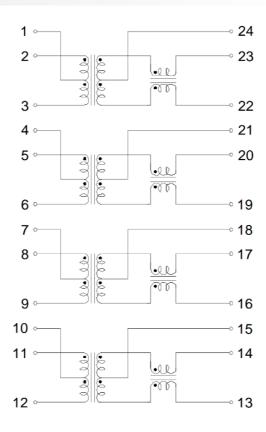
Suggested pad layout

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

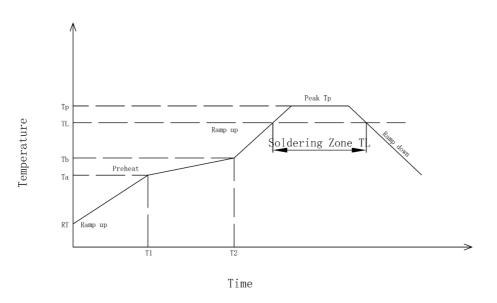


4. Electrical

4.1 Electrical Drawings



4.2 Profile of Reflow Solder



Preheat:

Temperature (Ta-Tb):150-200°C Time(T1-T2):60-180s

Holding Temperature:217°C Time (TL):60-150s

Max Temperature (Tp):250(+0/-5°C) Max Time (Tp):30Sec±10Sec

The average speed:3°C/S Max
The average cooling speed:6°C/S Max

From 25°C to Products out of the furnace:6 minutes Max

6



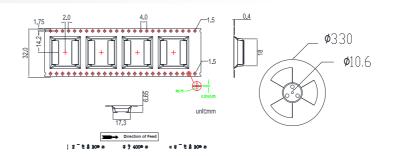
5. Packaging

5.1 SPQ

1 reel = 400 pcs

Reel (mm): 32x14.2x17.3

Weight (gr): 950











1 Carton = 7 reels = 2800 pcs

Carton dimensions: 373*365*284 mm

Carton Weight: 8.05 kg



5.2 Label

Taoglas Limited

P/N NO: XXXXXXXX

QYT: XXX PCS DC

DC: XXXX

DATE: XXXX-XX-XX

SPQ Label (8x5cm)

Taoglas Limited

P/N NO: XXXXXXXX

PO: XXXXXXXX B/N: XXXXXXXX

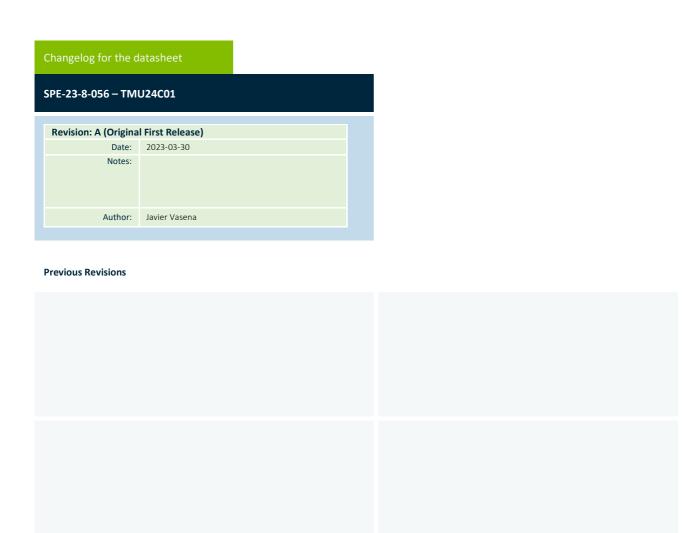
QYT: XXX PCS DC: XXXX

DATE: XXXX-XX-XX

Carton Label (8x5cm)



Changelog







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Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Taoglas:

TMU24C01