



LAN Transformer 10/100 Base-T

Part No: TM40601ANL

Description:

10/100 Base-T transformer Single Port and 6pin SMT

Features:

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 TM40601ANL is a 10/100 Base-T Single Port of 6pin with Transformer with Common Mode Choke to offer 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 (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

El	ectrical Performance @2	5°C	
Inductance OCL	150μH MIN @ 10	150µH MIN @ 100KHz 0.1V 8mA DC Bias	
Turns Ratio (±3%)	TX=1CT: 1CT	RX=1CT: 1CT	
Creepage Distance		> 5 mm	
Primary Leakage	0.5uH Max (@ 100Khz, 0.1Vrms	
Cw/w	35pF Max. Pr	rimary to Secondary	
DCR	Primary: 0.45Ω Ma	ax, Secondary: 0.85Ω Max	
Insertion Loss	0.25dB	MAX @ 4Mhz	
Return Loss (Z OUT = 100 OHM ±1%)	20dB I	MIN @ 4Mhz	
Common Mode Rejection Ratio	-35dB N	IIN @ 1-10Mhz	
	-20dB MIN	N @ 10-1000Mhz	
Hi-Pot	1	500VAC	

Env	vironmental Specifications
Operating Temperature	-40°C TO +85°C

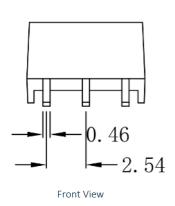
Compliance
UL recognized - FILE NO. E528697
RoHS Compliant

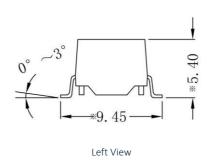
Storage requ	uirements
Humidity	MSL - 1
Storage Temperature	-40°C TO +85°C

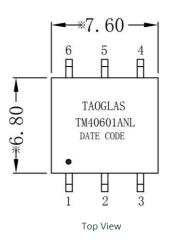


3. Mechanical

3.1 Mechanical Drawings



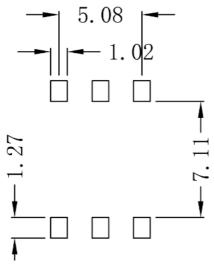




Mecha	nical Specifications
Length	7.60 mm
Width	9.45 mm
Height	5.40 mm
Mounting Style	Surface Mount (SMT)

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

3.2 Pad Layout



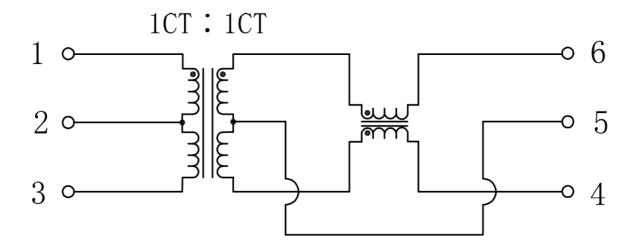
Suggested Pad layout

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

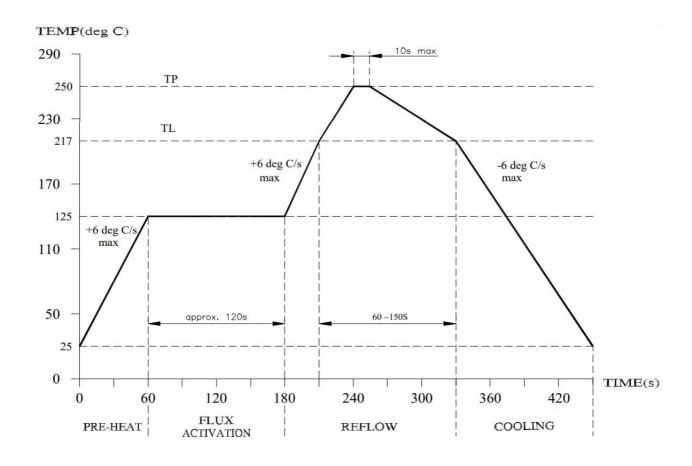


4. Electrical

4.1 Electrical Drawings



4.2 Profile of Reflow Solder





5. Packaging and Storage

5.1 SPQ

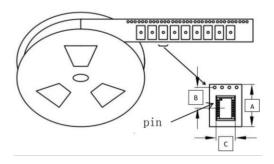
1000 pcs/reel

A (Carrier Tape Width): 24±0.3 mm

B (Sprocket hole to Cavity center): 11.5±0.2 mm

C (Cavity width): 9.9±0.2 mm

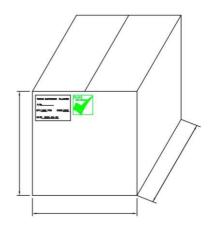
Reel weight: 850 g



1CTN = 6 reels = 6000 pcs

Carton dimensions: 370*370*250 mm

Carton Weight: 7 kg





Changelog

Changelog for the datasheet

SPE-22-8-037 - TM40601ANL

Revision: B	
Date:	2023-04-27
Notes:	Change from BMS Transformer class to LAN Transformer 10/100 Base-T
Author:	Javier Vasena

Previous Revisions

Revision: A (Origina	al First Release)
Date:	
Notes:	
Author:	Javier Vasena





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