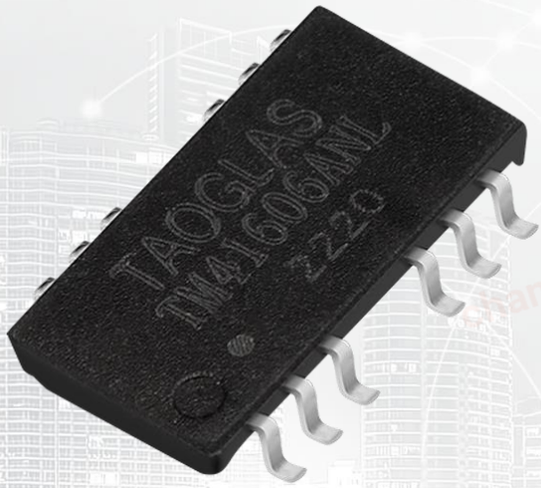
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Datasheet

LAN Transformer 10/100 Base-T PCMCIA

Part No:
TM41606ANL

Description

10/100 Base-T LAN Transformer
Single Port and 12pin SMT with low-profile PCMCIA

Features

PCMCIA
Transformer + CMC
Industrial grade
AutoMDIX
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 TM41606ANL is an LAN Transformer 10/100Base-T Single Port of 12pin that is capable to work in industrial environmental conditions.

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.

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2. Specifications

Electrical 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
Return Loss	-20dB MIN @ 0-30Mhz
	-14dB MIN @ 60Mhz
	-11.5dB MIN @ 80Mhz
Cross talk (dB TYP)	-45dB MIN @ 30Mhz
	-40dB MIN @ 60Mhz
	-35dB MIN @ 100Mhz
Common Mode Rejection (dB TYP)	-42dB MIN @ 30Mhz
	-37dB MIN @ 50Mhz
	-33dB MIN @ 100Mhz
Hi-Pot	1500Vrms

Environmental Specifications	
Operating Temperature	-40°C TO +85°C

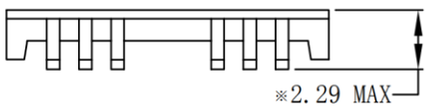
Compliance
UL recognized - FILE NO. E528697
RoHS Compliant

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

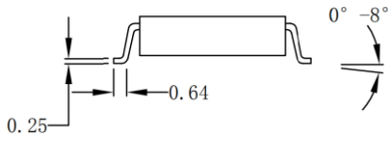
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3. Mechanical

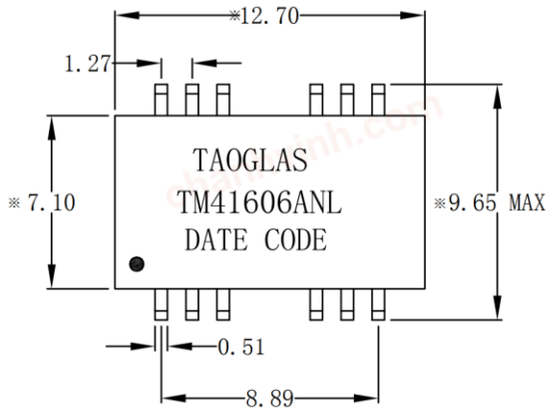
3.1 Mechanical Drawings



Front View



Left View

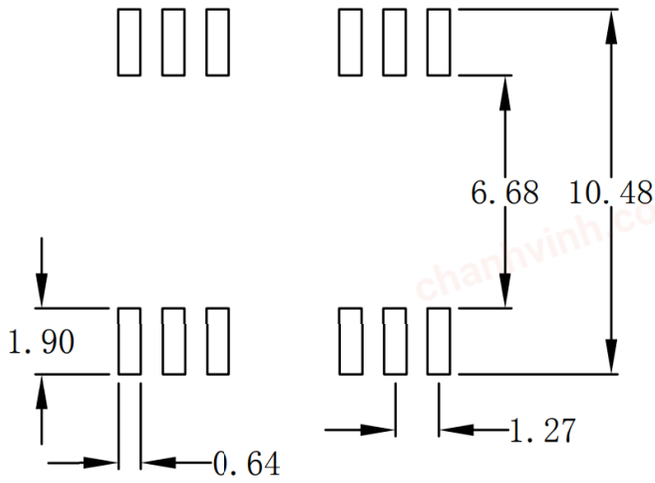


Top View

Mechanical Specifications	
Length	12.7 mm
Width	9.65 mm
Height	2.29 mm
Weight	g
Mounting Style	Surface Mount (SMT)

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

3.2 Pad Layout



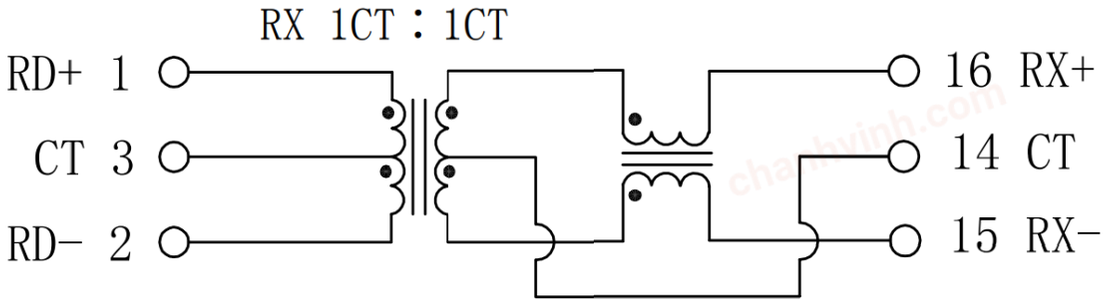
Suggested Pad Layout

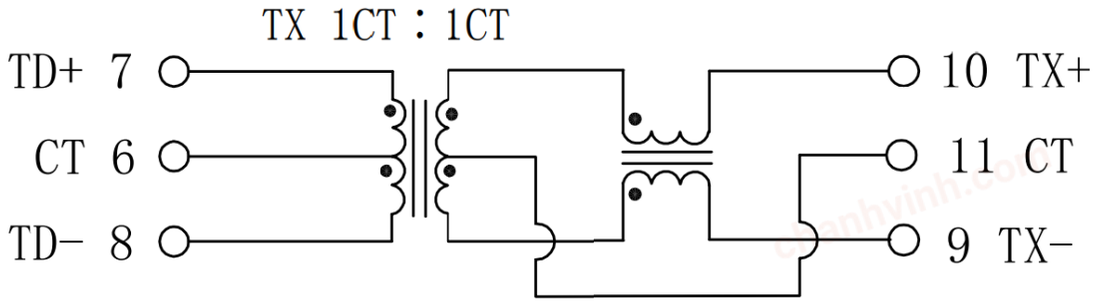
Dimensions are in millimeters with the following tolerances: X.XX = ±0.10

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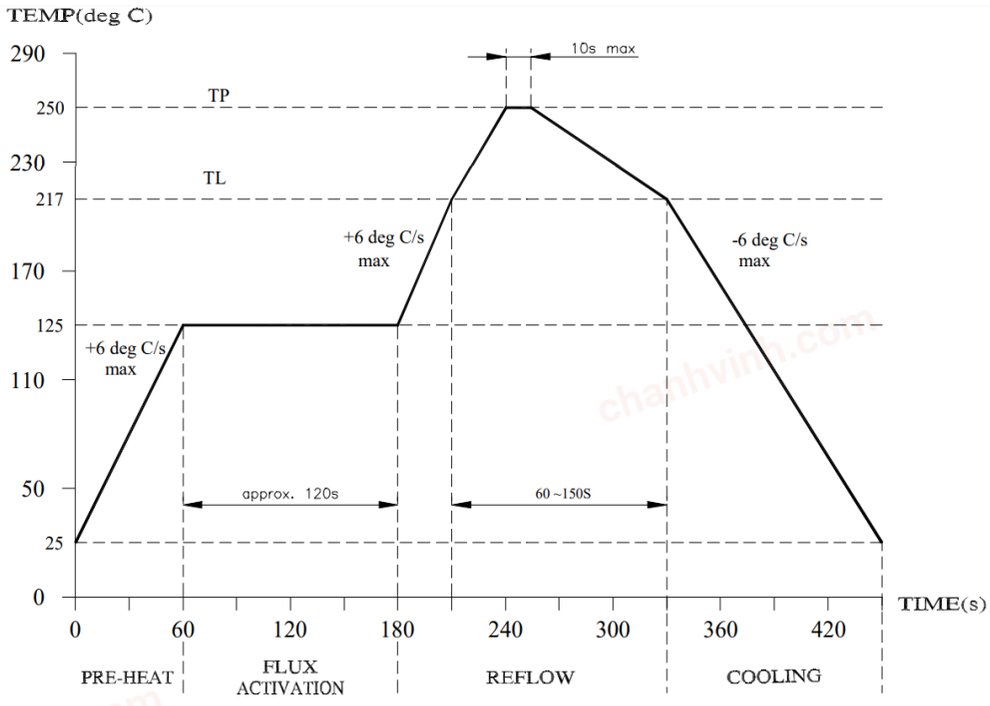
4. Electrical

4.1 Electrical Drawings





4.2 Profile of Reflow Solder



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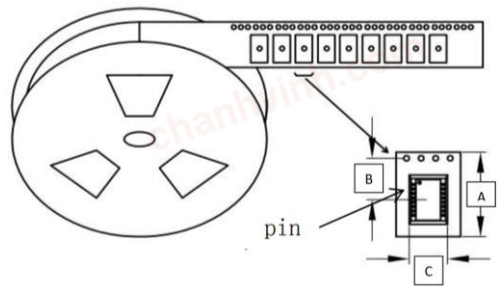
5. Packaging

5.1 SPQ

2000 pcs/reel

A (Carrier Tape Width): 24.9±0.3 mm
B (Sprocket hole to Cavity center): 11.5±0.2 mm
C (Cavity width): 13±0.2 mm

Reel weight: 1000 g

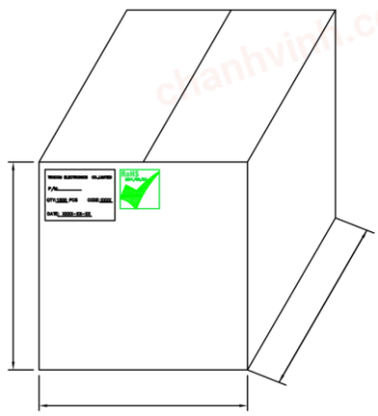


5.2 Carton

1CTN = 6 reels = 12000 pcs

Carton dimensions: 370*370*250mm

Carton Weight: 8 kg



5.3 Label



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Changelog

Changelog for the datasheet

SPE-22-8-068 – TM41606ANL

Revision: A (Original First Release)	
Date:	2024-06-30
Notes:	
Author:	Javier Vasena

Previous Revisions

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