



LAN Transformer 10/100 Base-T PCMCIA

Part No:

TMU16P11W

#### **Description:**

10/100 Base-T Transformer PCMCIA Single Port amd 16 pin SMT

#### **Features:**

PCMCIA
Transformer + CMC
Industrial grade



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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 TMU16P11W is a LAN Transformer 10/100 Base-T Single Port of 16pins.

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		
OCL	300μH Min. @100KHz/0.1V	
Turns Ratio (±3%)	1CT: 1CT	
LK	0.5μH Max @100KHz/0.2V	
Cw/w	28PF Max @100KHz/0.2V	
D.C.R:	1.2 ohm Max	
Insertion Loss	1-100MHz: -1.1dB Max	
Return Loss	1-30MHz: -16dB Min	
	30-60MHz: -16+20log(f/30) dB Min	
	60-80MHz: -10dB Min	
Cross Talk	1-100MHz: -30db Min	
CMRR	1-100MHz: -30dB Min	
Hi-Pot	1500Vrms	

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

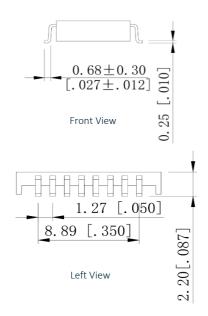
Compliance
UL recognized - FILE NO. E528697
RoHS Compliant

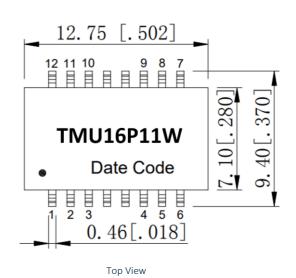
Storage requirements		
Humidity	MSL - 1	
Storage Temperature	-20°C TO +125°C	



## 3. Mechanical

## 3.1 Mechanical Drawings

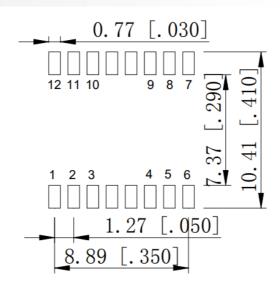




Mechanical Specifications		
Length	12.75 mm	
Width	9.40 mm	
Height	2.20 mm	
Mounting Style	Surface Mount (SMT)	

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

## 3.2 Pad Layout

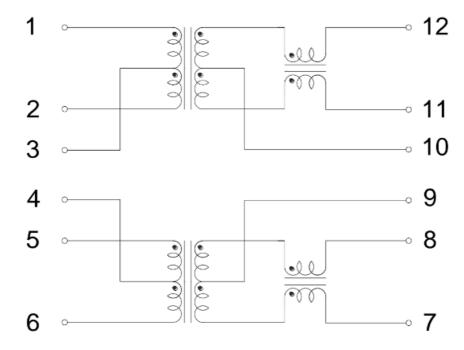


 $\label{eq:Suggested} Suggested \ pad \ layout$  Dimensions are in millimeters with the following tolerances: X.XX =  $\pm 0.10$ 

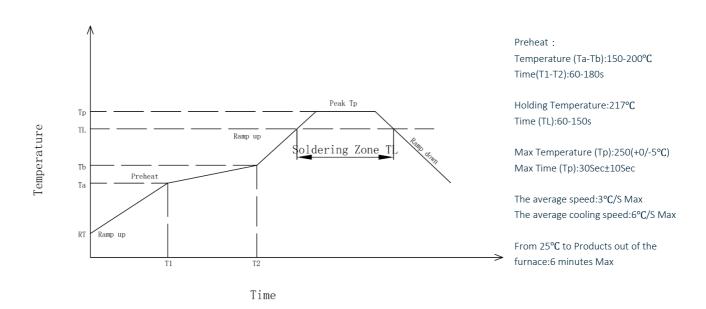


## 4. Electrical

## 4.1 Electrical Drawings



## 4.2 Profile of Reflow Solder





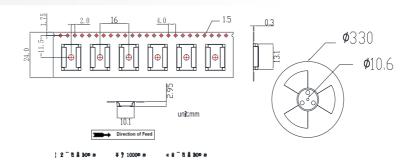
# 5. Packaging

### **5.1** SPQ

1 reel = 1000 pcs

Reel (mm): 24x11.5x10.1

Weight (gr): 650











1 Carton = 9 reels = 9000 pcs

Carton dimensions: 373\*365\*284 mm

Carton Weight: 7.2 kg



### 5.2 Label

Taoglas Limited

P/N NO: XXXXXXXX

QYT: XXX PCS DC: XXXX

The AMATES

Taoglas Limited

P/N NO: XXXXXXXX

DATE: XXXX-XX-XX

PO: XXXXXXXX B/N: XXXXXXXX

QYT: XXX PCS DC: XXXX

DATE: XXXX-XX-XX

SPQ Label (8x5cm)

Carton Label (8x5cm)



# Changelog

#### Changelog for the datasheet

#### SPE-23-8-032 - TMU16P11W

Date:	2024-07-03
Notes:	Sub-level category change to LAN Transformer
Author:	Javier Vasena

#### **Previous Revisions**

Revision: A (Original First Release)	
Date:	2023-02-21
Notes:	
Author:	Javier Vasena

Revision: C	
Date:	2023-07-18
Notes:	Update pin #.
Author:	Javier Vasena

Revision: B	
Date:	2023-03-30
Notes:	Update in PN for Q1 2023 availability.
Author:	Javier Vasena





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