



RJ45 ICM 10/100 Base-T Short Body PoE

Part No:

TMJUTHQ0021192425

Description:

RJ45 connector with integrated magnetics 10/100 Base-T Single Port Tab-DOWN with right angle THT mount and LEDs

Features:

Short Body

PoE (350mA)

3Wire + Transformer

Industrial grade

Shielded EMI Finger

RoHS Compliant



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1. Introduction



Featuring a popular footprint and compatible package to industry RJ45 Integrated Connectors standards, the Taoglas TMJUTHQ0021192425 is an RJ45 Integrated Connector 10/100 Base-T Single Port Tab Down with shielded EMI Finger and short body design for extra space in PoE applications.

Typical Applications Include:

- Industrial Automation
- Hubs
- Routers
- Switches
- Wireless Access Points

Taoglas Magnetics offer an extensive product line of RJ45 Integrated Connectors designed for commercial and industrial grade applications, supporting 10/100 Base-T (Atmos100 Series) and 1G Base-T (Atmos1000 series). These surface mount or through-hole components provide reliable performance and maintain signal integrity that meets IEEE 802.3 standards, and they are UL certified. The Power over Ethernet options are also available including PoE, PoE+ and PoE++.

The majority of Taoglas RJ45 ICMs are manufactured with fully automated winding, assembly & testing to ensure consistent performance, quality and reliability while ensuring cost competitiveness for its customers. These products are fully compliant with the REACH and RoHS directive, and compatible with all major PHY vendors.

For customized products or support with integration, contact your regional Taoglas customer support team for further information.



2. Specifications

Ele	ctrical Performance @25°C
OCL	350uH MIN @100KHZ,0.1V 8mA DC BIAS
Turns Ratio (±2%)	1CT:1CT
Insertion Loss	-1.0 dB Max @ 0.1MHz-100MHz
Return Loss	-20 dB Min @ 1MHz-30MHz
	-16 dB Min @ 30MHz -60MHz
	-12 dB Min @ 60MHz -80MHz
	-10 dB Min @ 80MHz -100MHz
CM to CM Mode Attenuation	-30 dB Min @ 1MHz-100MHz
Cross Talk	-40 dB Min @ 1MHz-30MHz
	-35 dB Min @ 30MHz-60MHz
	-30 dB Min @ 60MHz-100MHz
PoE	Balance DC line current 350mA max. 57V DC continuous
Hipot (Isolation Voltage)	2500V DC 6S 1mA PRI to SEC

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

Material Specifications
PBT, UL94 V-0, Black.
PBT, UL94V-0, Black.
C2680, T=0.20mm, nickel plating on all area.
Phosphor Bronze C5210, T=0.35mm.
6U" gold plating on contact area
750 cycles min.
23N Max.
260°C Max, 5 Sec

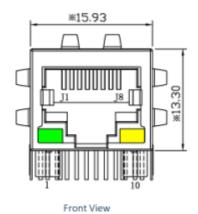
Compliance
IEEE 802.3
RoHS Compliant

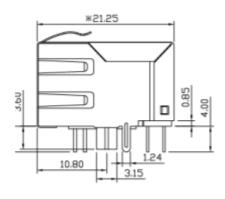
	Storage requirements
Humidity	MSL - 1
Storage Temperature	-40°C TO +85°C

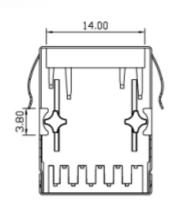


3. Mechanical

3.1 Mechanical Drawings

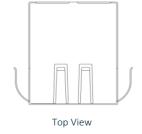






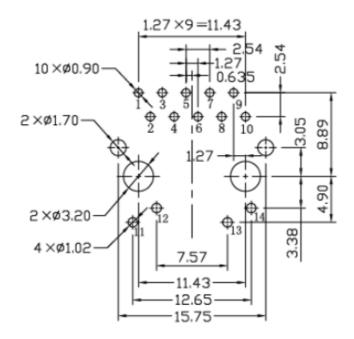
ew Left View Bottom View

Mecha	nical Specifications
Height	13.30mm
Width	15.93mm
Depth	21.25mm
Mounting Style	Through Hole (THT)
Mounting Angle	Right Angle



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

3.2 PCB Layout

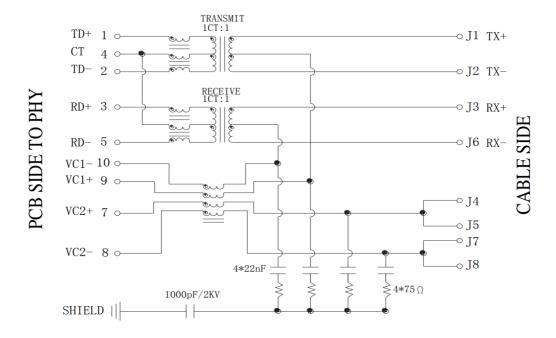


Dimensions are in millimeters with the following tolerances: X.XX = ± 0.10

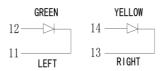


4. Electrical

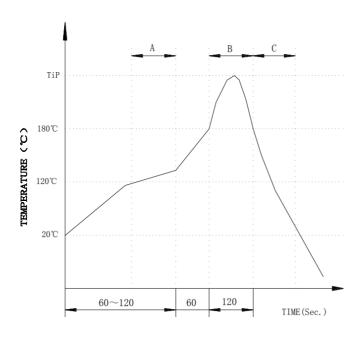
4.1 Electrical Drawings



	LED Electrica	Specification	
Standard LED	Wavelength (nm)	V_{F}	I _F
Green	568	1.85-2.45V	20 μΑ
Yellow	585	1.7-2.2V	20 μΑ



4.2 Profile of Wave Solder



A.Preheating B.Soldering C.Gradual Cooling Tip temperature: $260\pm5^{\circ}$ C. Tip temperature time: 5Sec Max.

Tip melting point of Sn96.5/Ag3/Cu0.5:217°C.

Remarks: after wave soldering, the plastic positioning columns of the product which under the PCB will be slightly melted, but it won't affect its function.

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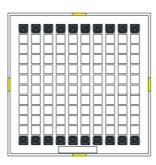
5. Packaging

5.1 SPQ

120 pcs/tray

Tray dimension: 305*300*21 mm

Tray Weight: 900g



1 Carton = 9 trays = 1080 pcs

Carton dimensions: 330*330*210mm

Carton Weight: 8kg



5.2 Label

Taoglas Limited

P/N NO: XXXXXXXX

PO: XXXXXXXX B/N: XXXXXXXX

QYT: XXX PCS DC: XXXX

DATE: XXXX-XX-XX

Carton Label (8x4cm)



Changelog

Changelog for the datasheet

SPE-23-8-160 - TMJUTHQ0021192425

Revision: B	
Date:	2024-10-11
Notes:	Mechanical drawing update
Author:	Javier Vasena

Previous Revisions

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





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