



RJ45 ICM 1G Base-T Low Profile

Part No:

TMJY303DYDZ2NL

Description:

RJ45 connector with integrated magnetics 1G Base-T

Low Profile Single Port Tab-LIP with right angle THT mount and LED.

Features:

Low Profile

Transformer + 3 Wire

Shielded FMI Finger

Industrial grade

RoHS Compliant



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1. Introduction



Featuring a popular footprint and compatible package to industry RJ45 Integrated Connectors standards, the Taoglas TMJY303DYDZ2NL is an RJ45 Integrated Connector 1G Base-T Low Profile Single Port Tab Up with shielded EMI finger.

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

Elec	trical Performance @25°C
Inductance (100KHz/0.1V)	350uH Min
Turn Ratio (±3%)	1CT:1CT
Insertion Loss (dB MAX)	-1.0dB (0.1-100MHz)
Return Loss (dB MIN)	-16dB (1-30MHz)
	-14.5dB (30-60MHz)
	-12dB (80MHz)
Cross talk (dB MIN)	-30dB (0.1-100MHz)
Common Mode Rejection (dB MIN)	-30dB (0.1-100MHz)
Hi-Pot	2250VDC/0.5mA/2Sec

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

	Material Specifications
Housing	PA66 BLACK UL94 V-0
Insert	PA66 BLACK UL94 V-0
Contact	Phosphor Bonze
Shield	Brass
Shield Plating	Nickel
Contact plating	Selective Gold 6 micro-inches min. in contact area.
Wave solder tip temperature	260°C Max, 10 Sec Max

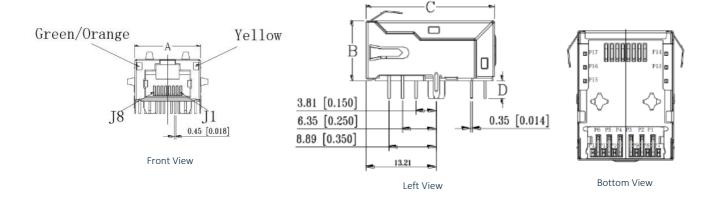
Compliance
IEEE 802.3
UL recognized - FILE NO. E528697
RoHS Compliant

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



3. Mechanical

3.1 Mechanical Drawings

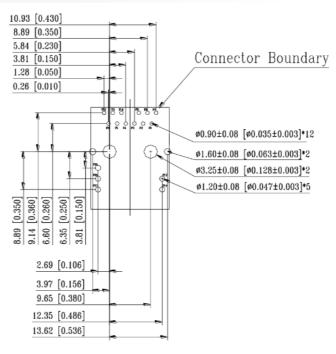


Mecha	nical Specifications
Height	11.3mm
Width	17.78mm
Depth	24.13mm
Weight	7.16g
Mounting Style	Through Hole (THT)
Mounting Angle	Right Angle



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

3.2 PCB Layout

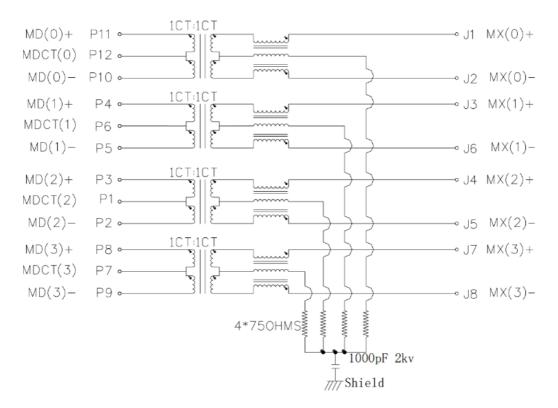


Suggested PCB Layout (Top View) Dimensions are in millimeters with the following tolerances: $X.XX = \pm 0.10$

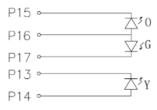


4. Electrical

4.1 Electrical Drawings

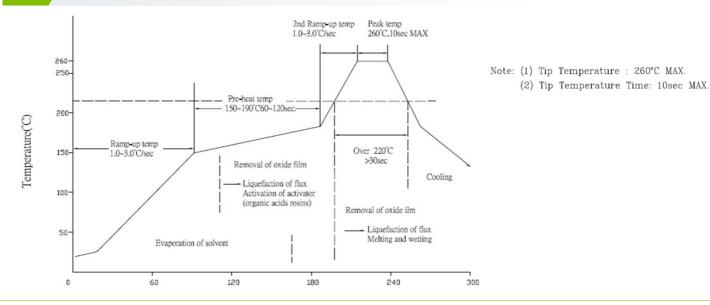


	LED Electrical	Specification	
Standard LED	Wavelength (nm)	Forward V(max)	TYP
Green	565	2.4v	2.2v
Yellow	590	2.5v	2.1v
Orange	605	2.6v	2.0v



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4.2 Profile of Wave Solder





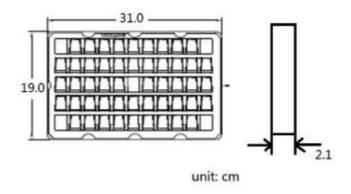
5. Packaging

SPQ

50 pcs/tray

Tray dimension: 310*190*21 mm

Tray Weight: 400g



1 Carton = 24 trays = 1200 pcs

Carton dimensions: 400*320*335mm

Carton Weight: 15kg



Label

Taoglas Limited

P/N NO: XXXXXXXX

DC: XXXX QYT: XXX PCS

DATE: XXXX-XX-XX

SPQ Label (8x4cm)

Taoglas Limited

P/N NO: XXXXXXXX

PO: XXXXXXXX B/N: XXXXXXXX

QYT: XXX PCS DC: XXXX

DATE: XXXX-XX-XX

Carton Label (8x4cm)

www.taoglas.com SPE-23-8-200-B



Changelog

Changelog for the datasheet

SPE-23-8-204 – TMJY303DYDZXNL

Revision: B	
Date:	2023-11-06
Notes:	SPQ and Profile of Wave Solder
Author:	Javier Vasena

Previous Revisions

Date: 2023-10-01 Notes:
Notes:
Author: Javier Vasena





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