



# Datasheet

# RJ45 ICM 1G Base-T 1x4 PoE Ultra

Part No: TMJY527DYDZ5NL

### **Description:**

RJ45 connector with integrated magnetics 1G Base-T. Quad Port Tab-UP with THT mount and LEDs.

### Features:

Long Body 3Wire + Transformer Shielded EMI Finger PoE Ultra (1000mA) Industrial grade 50 μ" gold RoHS compliant

www.taoglas.com



0.	Changelog	8
5.	Packaging	7
4.	Electrical	6
3.	Mechanical	5
2.	Specifications	4
1.	Introduction	3

Taoglas makes no warranties based on the accuracy or completeness of the contents of this document and reserves the right to make changes to specifications and product descriptions at any time without notice. Taoglas reserves all rights to this document and the information contained herein. Reproduction, use or disclosure to third parties without express permission is strictly prohibited.





# 1. Introduction



Featuring a popular footprint and compatible package to industry RJ45 Integrated Connectors standards, the Taoglas TMJY527DYDZ5NL is an RJ45 Integrated Connector 1G Base-T with 1x4 Port configuration and Shielded EMI Finger long body designed for PoE Ultra 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

Electrical Performance @25°C	
350uH MIN	
120uH MIN	
1CT: 1CT	
-1.0dB (1-100MHz)	
-1.2dB (100-125MHz)	
-16dB (1-40MHz)	
-12dB (40-60MHz)	
-10dB (60-80MHz)	
-8dB (80-100MHz)	
-30dB (1-100MHz)	
-30dB (1-100MHz)	
1000mA	
2250VDC/0.5mA/2Sec	

## **Environmental Specifications**

**Operating Temperature** 

-40°C TO +85°C

	Material Specifications
Housing	Thermoplastic Black UL94 V-0
Shield	Brass
Shield Plating	Nickel
Contact	Phosphor Bronze
	Gold in contact area
Contact Plating	Thickness = 50µ" min.
Peak soldering temp.	260°C Max, 10 s Max

# Compliance

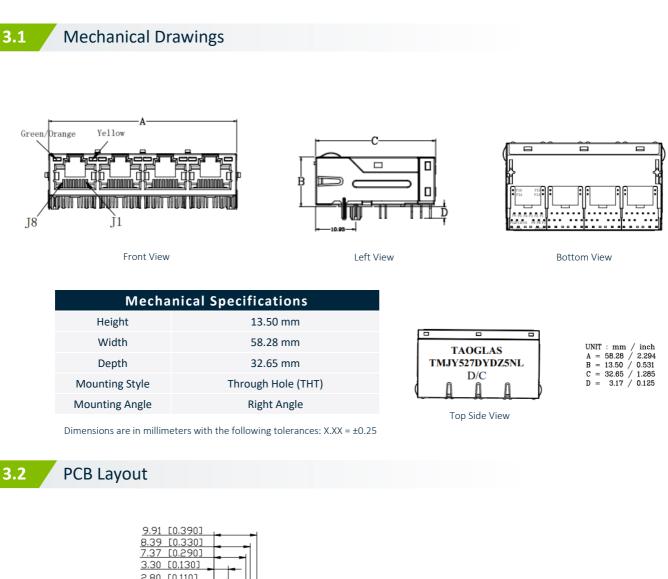
**RoHS** Compliant

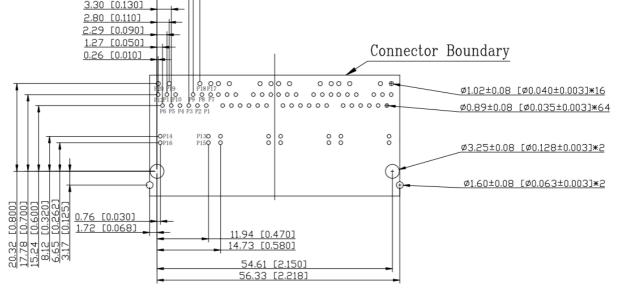
	Storage requirements
Humidity	MSL - 1
Storage Temperature	-40°C TO +85°C



# Mechanical

3.





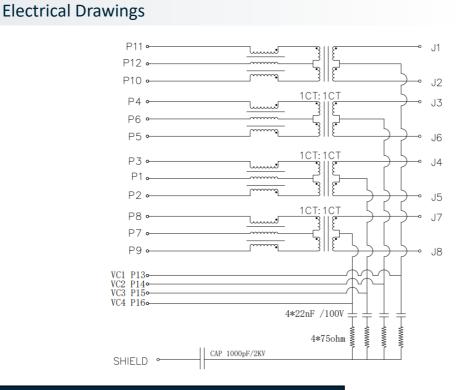
Suggested PCB Layout (Top View) Dimensions are in millimeters with the following tolerances: X.XX =  $\pm 0.10$ 



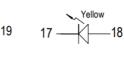
# Electrical

4.

4.1

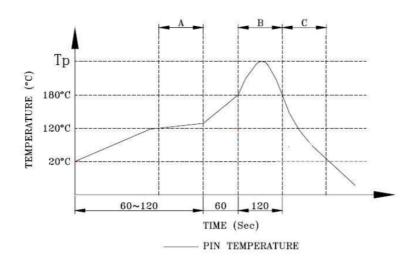


	LED Electrica	l Specification	
Standard LED	Wavelength (nm)	V <sub>F</sub> (max)	ТҮР
Green	565	2.4v	2.2v
Yellow	590	2.4v	2.1v
Orange	605	2.4v	2.0v



### 4.2

Profile of Wave Solder



SUGGESTED WAVE SOLDER CURVE

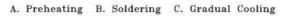
Gn

Orange

20

1. Peak temperature(Tp) :  $250 \pm 10^{\circ}$ C

2. Peak temperature(Tp) time : 5sec max

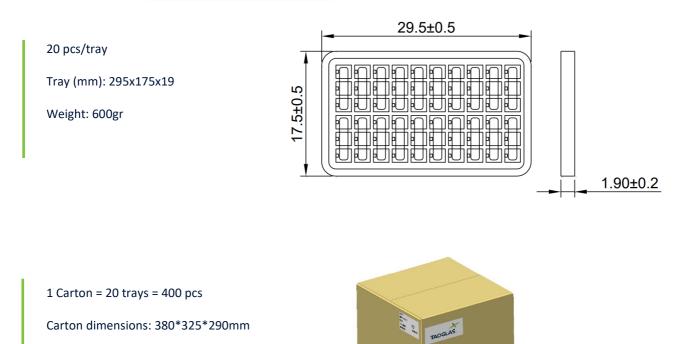




# Packaging

### SPQ 5.1

5.



Carton Weight: 15kg

Label

### 5.2

Taogla	as Limited	
P/N NO: XXXXXXXX		
QYT: XXX PCS	DC: XXXX	SPQ Label (8x4c
DATE: XXXX-XX-XX		

Taoglas	s Limited	7
P/N NO: XXXXXXXX		
PO: XXXXXXXX	B/N: XXXXXXXX	Carton Label (8x4cm)
QYT: XXX PCS	DC: XXXX	
DATE: XXXX-XX-XX		

cm)



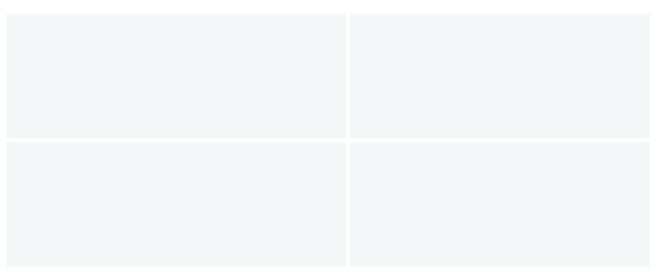
# Changelog

Changelog for the datasheet

SPE-23-8-156 – TMJY527DYDZ5NL

Revision: A (Original First Release)	
Date:	2023-07-01
Notes:	
Author:	Javier Vasena

### **Previous Revisions**







# www.taoglas.com