



RJ45 ICM 10G Base-T

Part No: TMJY611DGDZ4NL

Description:

RJ45 connector with integrated magnetics 10G Base-I Single Port Tab-UP with THT mount and LEDs.

Features:

Long Body

3Wire + Transformer

Shielded EMI Finger

industrial grade

30 μ" gold

RoHS compliant



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1. Introduction



Featuring a popular footprint and compatible package to industry RJ45 Integrated Connectors standards, the Taoglas TMJY611DGDZ4NL is an RJ45 Integrated Connector 10G Base-T with Shielded EMI Finger and long body design for Industrial environments.

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			
110uH MIN			
1CT: 1CT			
-3.0dB (100kHz)			
-2.0dB (1-400MHz)			
-22dB (1-100MHz)			
-22 + 20.75Log(f/100MHz) dB (100-500MHz)			
-34dB (1MHz)			
-23dB (350MHz)			
-23dB (500MHz)			
-30dB (1-40MHz)			
-28dB (40-100MHz)			
-26dB (100-500MHz)			
-30dB (1-250MHz)			
-22dB (250-500MHz)			
2250VDC/0.5mA/2S			

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

Material Specifications			
Housing	PA66 Black UL94 V-0		
Insert	PA66 Black UL94 V-0		
Shield	Brass		
Shield Plating	Nickel		
Contact	Phosphor Bronze		
	Gold in contact area		
Contact Plating	Thickness = 30μ " min.		
Peak soldering temp.	260°C Max, 10 s Max		

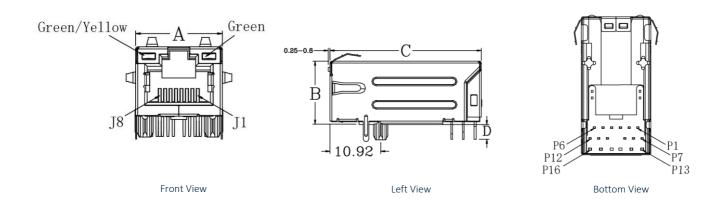
Compliance
RoHS Compliant

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



3. Mechanical

3.1 Mechanical Drawings



Mechanical Specifications			
Height	13.61 mm		
Width	16.31 mm		
Depth	32.57 mm		
Mounting Style	Through Hole (THT)		
Mounting Angle	Right Angle		



UNIT : mm

A = 16.31

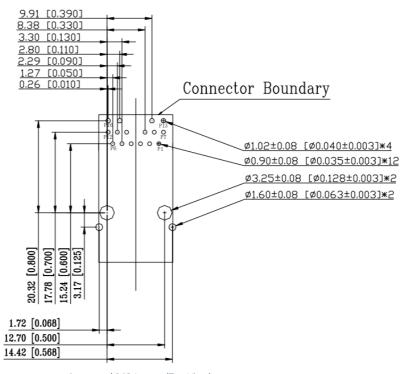
B = 13.61

C = 32.57

D = 3.17

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

3.2 PCB Layout



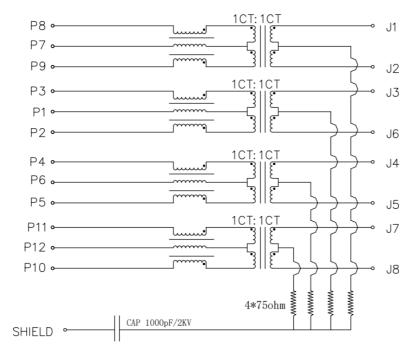
Suggested PCB Layout (Top View)

Dimensions are in millimeters with the following tolerances: $X.XX = \pm 0.10$

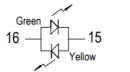


4. Electrical

4.1 Electrical Drawings

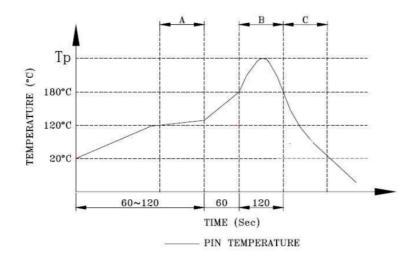


LED Electrical Specification			
Standard LED	Wavelength (nm)	V _F (max)	TYP
Green	565	2.4v	2.2v
Yellow	590	2.4v	2.1v





4.2 Profile of Wave Solder



A. Preheating B. Soldering C. Gradual Cooling

SUGGESTED WAVE SOLDER CURVE

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

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



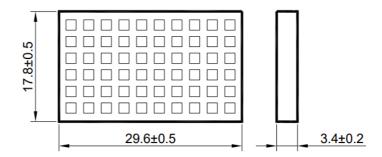
5. Packaging

5.1 SPQ

60 pcs/tray

Tray (mm): 296x178x34

Weight: 550gr



1 Carton = 14 trays = 840 pcs

Carton dimensions: 380*325*290mm

Carton Weight: 11kg



5.2 Label

Taoglas Limited

P/N NO: XXXXXXXX

QYT: XXX PCS DC: XXXX

DATE: XXXX-XX-XX

SPQ Label (8x4cm)

Taoglas Limited

P/N NO: XXXXXXXX

PO: XXXXXXXXX B/N: XXXXXXXX

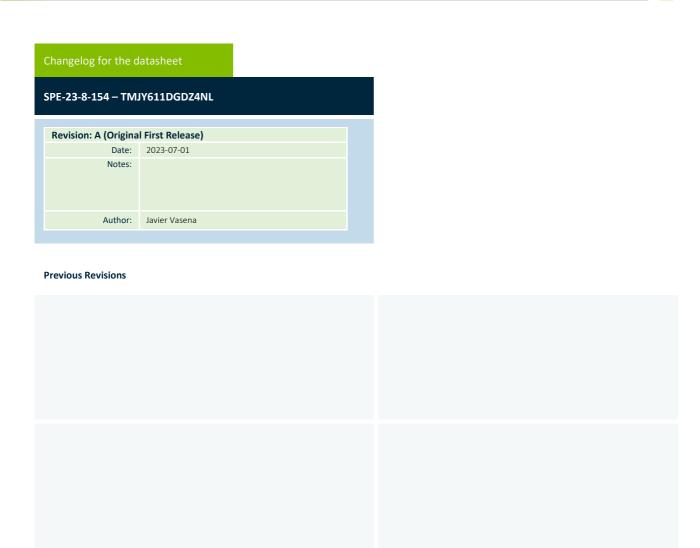
QYT: XXX PCS DC: XXXX

DATE: XXXX-XX-XX

Carton Label (8x4cm)



Changelog







www.taoglas.com

