



TAOGLAS®



Datasheet

RJ45 ICM 1G Base-T Short Body

Part No:
TMJG4820GENL

Description:

RJ45 connector with integrated magnetics 1G Base-T
Single Port Tab-DOWN with right angle THT mount and LEDs

Features:

- EMI Fingers
- Industrial grade
- Short Body
- RoHS & REACH Compliant

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1. Introduction



Featuring a popular footprint and compatible package to industry RJ45 Integrated Connectors standards, the Taoglas TMJG4820GENL is an RJ45 Integrated Connector 1G Base-T Single Port Tab Down with EMI Finger and shielded short body design that offers extra space.

Typical Applications Include:

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

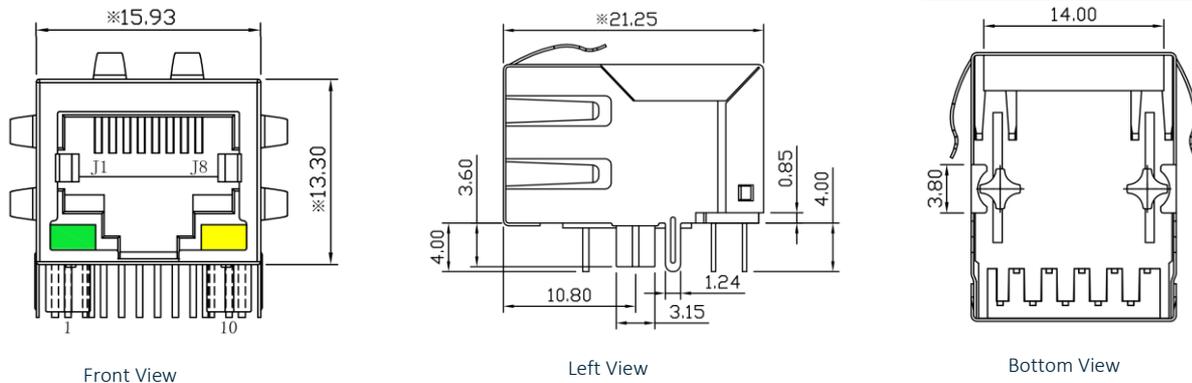
Taoglas Magnetics offer an extensive product line of RJ45 Integrated Connectors designed for commercial and industrial grade applications, supporting 10/100 Base-T (Atmos100 Series) and 1G Base-T (Atmos1000 series). These surface mount or through-hole components provide reliable performance and maintain 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.

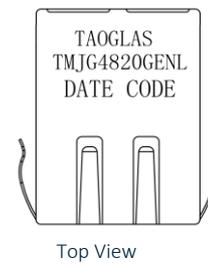
For customized products or support with integration, contact your regional Taoglas customer support team for further information.

3. Mechanical

3.1 Mechanical Drawings

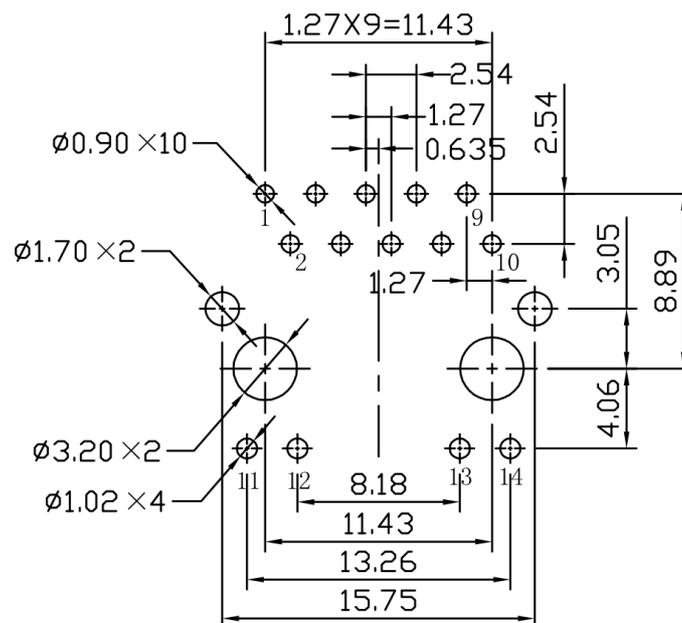


Mechanical Specifications	
Height Above Board	0.52" (13.3mm)
Width	0.627" (15.93mm)
Depth	0.837" (21.25mm)
Mounting Style	Through Hole (THT)
Mounting Angle	Right Angle



Dimensions are in millimeters with the following tolerances: X.XX = ± 0.25

3.2 PCB Layout

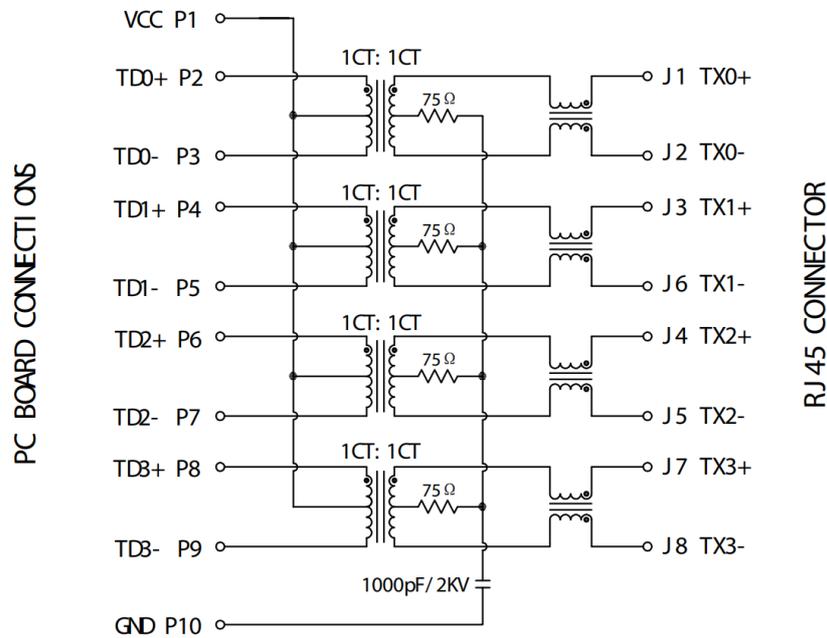


Suggested PCB Layout (Top View)

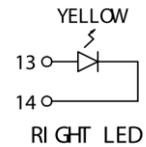
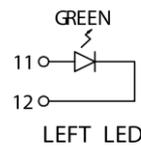
Dimensions are in millimeters with the following tolerances: X.XX = ± 0.10

4. Electrical

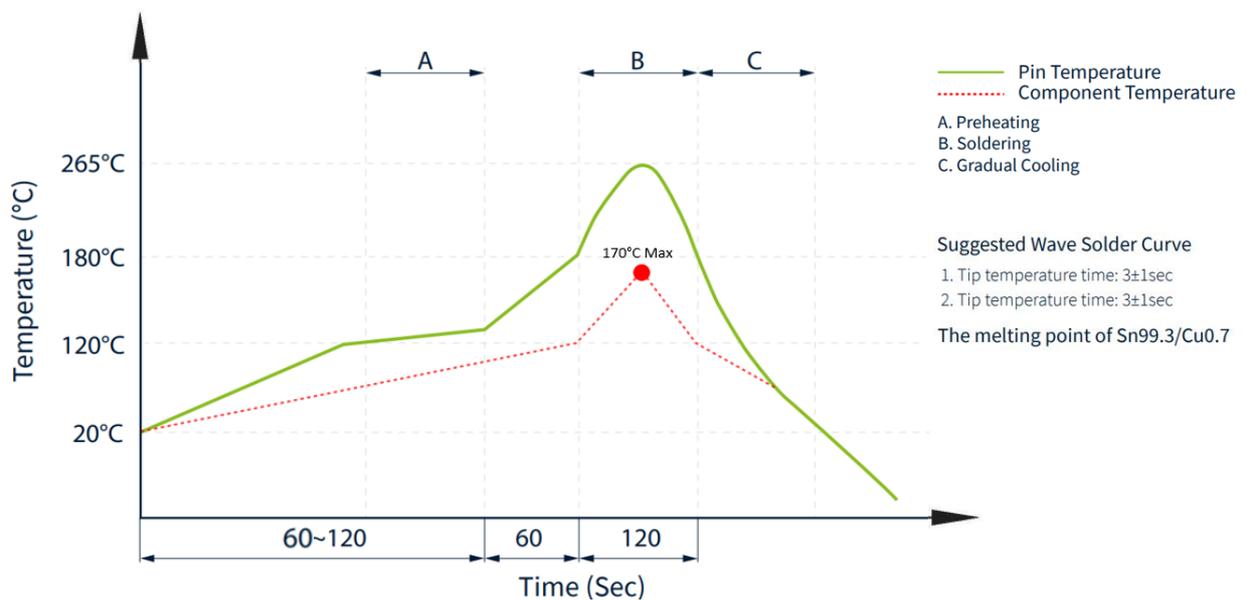
4.1 Electrical Drawings



LED Electrical Specification			
Standard LED	Wavelength (nm)	V_F ($I_F=20mA$)	I_R ($V_R=5v$)
Green	565	1.8~2.6v	10 μA Max
Yellow	585	1.8~2.6v	10 μA Max



4.2 Profile of Wave Solder



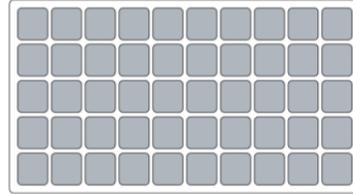
5. Packaging and Storage

5.1 SPQ

50 pcs/tray

Tray dimension: 290x176x28mm

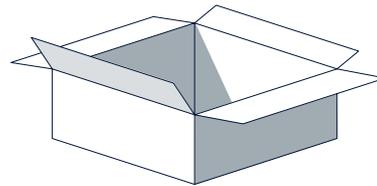
Tray Weight: 429g



1 CTN = 24 trays = 1200 pcs

Carton dimensions: 320*300*301mm

Carton Weight: 9kg



Changelog

Changelog for the datasheet

SPE-22-8-050 – TMJG4820GENL

Revision: A (Original First Release)

Date:	2022-11-08
Notes:	
Author:	Javier Vasena

Previous Revisions



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