



TAOGLAS®



Datasheet

RJ45 ICM 1G Base-T Long Body

Part No:
TMJK0036AINL

Description:

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

Features:

AutoMDIX
3Wire/Phy
Long 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 TMJK0036AINL is an RJ45 Integrated Connector 1G Base-T Single Port Tab Up with EMI Finger and shielded long body and a schematic that enables AutoMDIX feature.

Typical Applications Include:

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

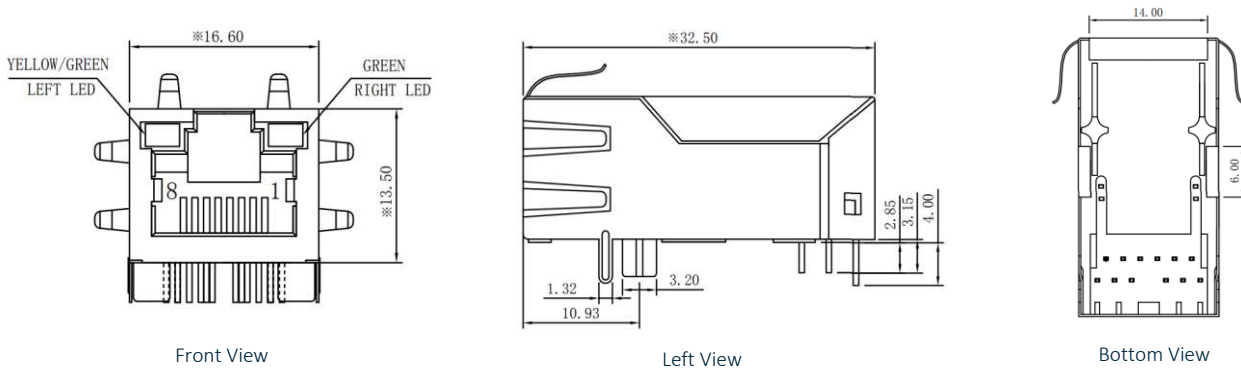
Taoglas Magnetics offer an extensive product line of RJ45 Integrated Connectors designed for commercial and industrial grade applications, supporting 10/100 Base-T (Atmos100 Series) and 1G Base-T (Atmos1000 series). These surface mount or through-hole components provide reliable performance and maintain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

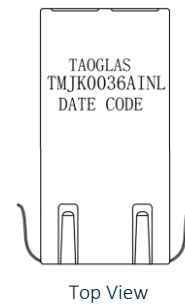
For customized products or support with integration, contact your regional Taoglas customer support team for further information.

3. Mechanical

3.1 Mechanical Drawings

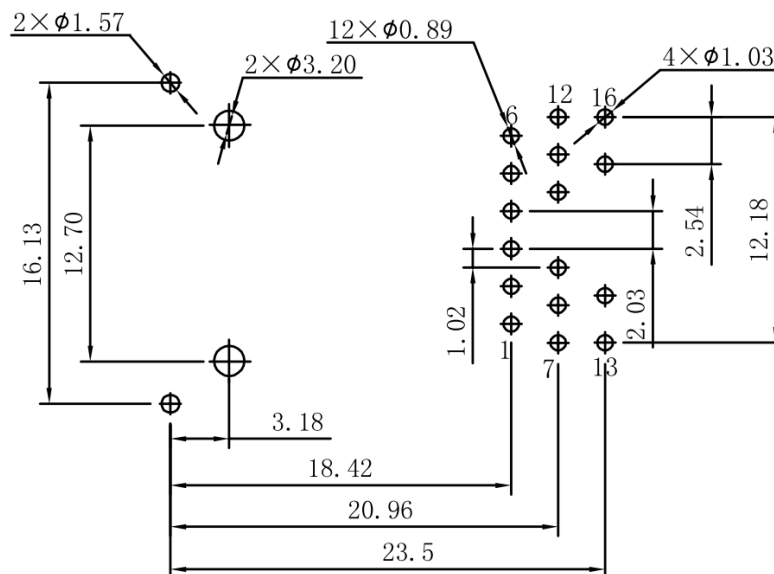


Mechanical Specifications	
Height Above Board	0.531" (13.5mm)
Width	0.653" (16.6mm)
Depth	1.28" (32.5mm)
Mounting Style	Through Hole (THT)
Mounting Angle	Right Angle



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

3.2 PCB Layout

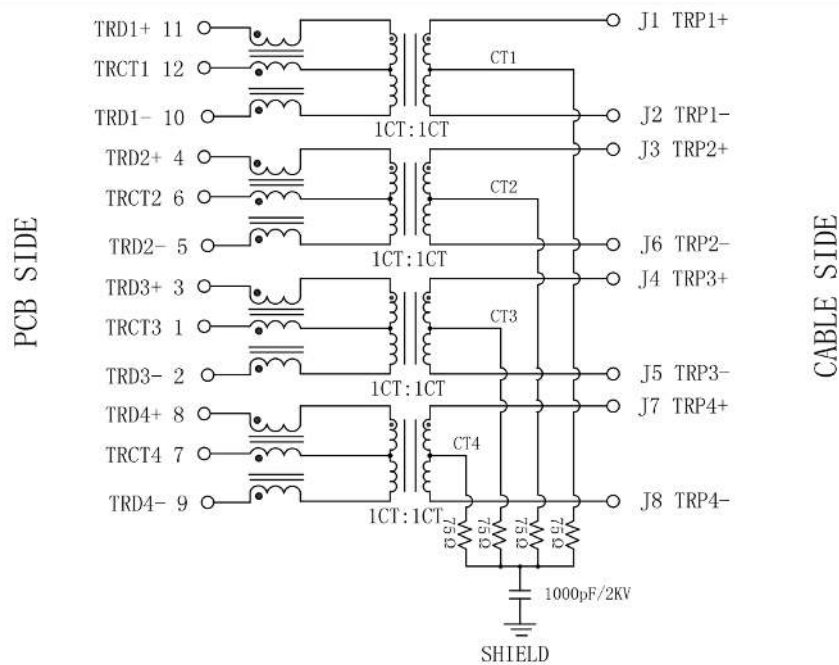


Suggested PCB Layout (Top View)

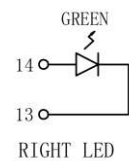
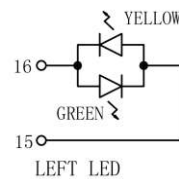
Dimensions are in millimeters with the following tolerances: X.XX = ±0.10

4. Electrical

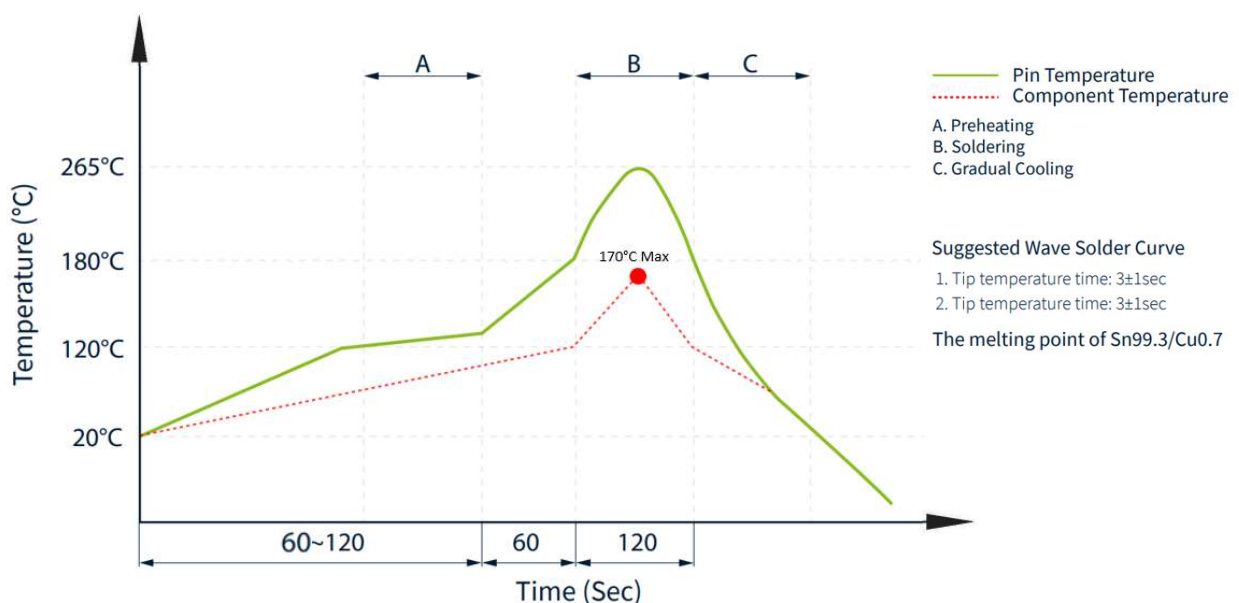
4.1 Electrical Drawings



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



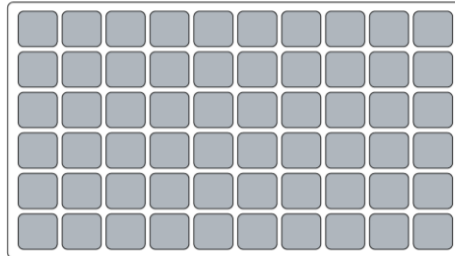
5. Packaging and Storage

5.1 SPQ

60 pcs/tray

Tray dimension: 292*176*33 mm

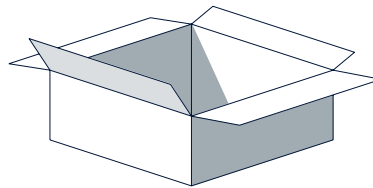
Tray Weight: 600g



1 CTN = 16 trays = 960 pcs

Carton dimensions: 370*300*300 mm

Carton Weight: 10kg



Changelog

Changelog for the datasheet

SPE-22-8-048 – TMJK0036AINL

Revision: A (Original First Release)

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

Previous Revisions



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