



Datasheet

RJ45 ICM 1G Short Body

Part No: TMJG4887GENL

Description:

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

Features:

Short Body 3Wire + Transforme Shielded EMI Finger Board guide Industrial grade

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1. Introduction



Featuring a popular footprint and compatible package to industry RJ45 Integrated Connectors standards, the Taoglas TMJG4887GENL is an RJ45 Integrated Connector 1G Base-T Single Port Tab-DOWN with shielded EMI Finger and 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.



2. Specifications

Ele	ctrical Performance @2	5°C
Inductance OCL	350μH MIN @ 1	00KHz 0.1V 8mA DC Bias
DCR	1	Ι.2 Ω ΜΑΧ
Turns Ratio (±2%)	TX=1CT: 1CT	RX=1CT: 1CT
Insertion Loss	-1.0dB M	MAX @1-100MHz
	-1.2dB M	AX @100-125MHz
Return Loss	-16dB	MIN @1-40MHz
	-10dB N	1IN @40-100MHz
	-10dB N	/IN @60-80MHz
	-8dB M	IN @80-100MHz
Cross Talk	-30dB N	MIN @1-100MHz
Common Mode Rejection Ratio	-30dB N	/IN @1-100MHz
Hi-Pot	:	1500Vrms

Environmental Specifications

Operating Temperature

-40°C TO +85°C

	Material Specifications
Housing	Thermoplastic PBT+30%G. F UL94V-0
Contact	Phosphor Bronze C5210R-EH Thickness = 0.35mm
Pins	Brass C2680R-H Thickness = 0.35mm
Shield	Stainless Steel SUS 201-1/2H Thickness = 0.2mm
Contact Plating	Gold in contact area. Thickness = 6μ" min.

Compliance

UL recognized - FILE NO. E528697 **RoHS** Compliant

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

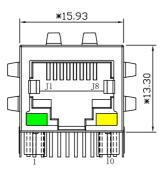


Mechanical

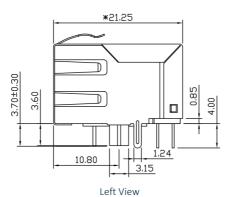
3.1

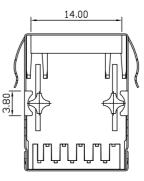
3.

Mechanical Drawings



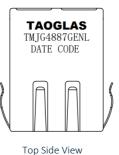
Front View





Bottom View

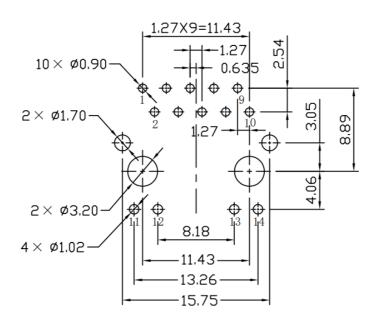
Mecha	nical Specifications
Height Above Board	13.3 mm
Width	15.93 mm
Depth	21.25 mm
Mounting Style	Through Hole (THT)
Mounting Angle	Right Angle



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

3.2 PCB

PCB Layout

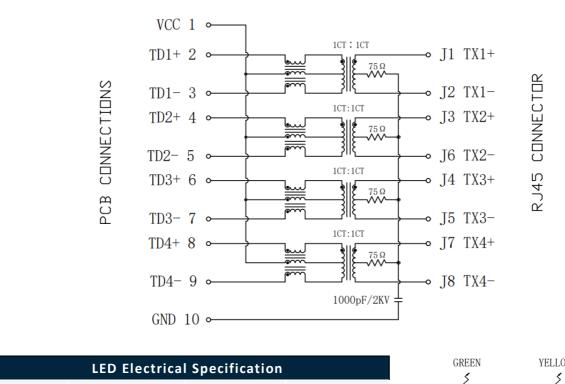




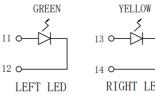


Electrical

Electrical Drawings



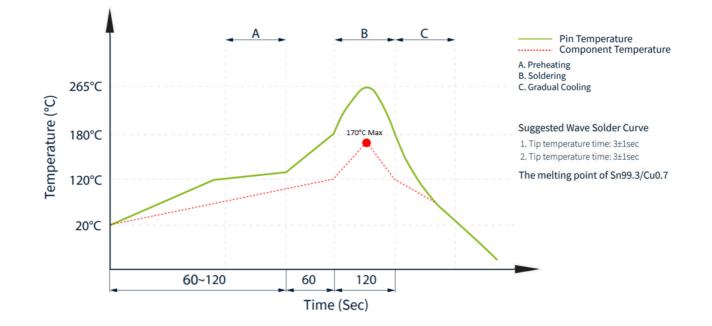
	LED Electrica	I Specification	
Standard LED	Wavelength (nm)	V _F (I _F =20mA)	$I_R (V_R=5v)$
Green	565	1.8~2.6v	10 µA Max
Yellow	585	1.8~2.6v	10 µA Max







Profile of Wave Solder

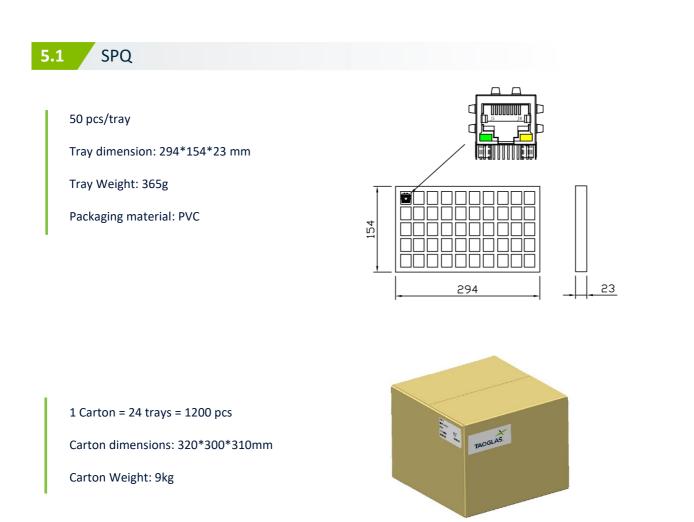


4.

4.1



5. Packaging



5.2

Label

Taoglas Limited

P/N NO: XXXXXXXX

PO: XXXXXXXX

B/N: XXXXXXXX

QYT: XXX PCS

DC: XXXX

DATE: XXXX-XX-XX

Carton Label (8x4cm)



Changelog

Changelog for the datasheet

SPE-23-8-045 – TMJ	G4887GENL
Revision: B	
Date:	2023-07-05
Notes:	Update in Solder Profile
Author:	Javier Vasena

Previous Revisions

Revision:	A (Origina	l First Release)
		2023-03-30
	Notes:	
	Author:	Javier Vasena





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