



Datasheet

RJ45 ICM 1G Base-T Short Body

Part No: TMJG4933HENL

Description:

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

Features:

AutoMDIX Industrial grade Short Body RoHS & REACH Compliar

www.taoglas.com



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

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 TMJG4933HENL is an RJ45 Integrated Connector 1G Base-T Single Port Tab Down, its shielded short body design offers extra space, and with 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.



2. Specifications

	Electrical Performance @2	5°C	
Inductance OCL	350μH MIN @ 100K	Hz 0.1V 8mA DC Bias	
DCR	1.2 Ω	MAX	
Turns Ratio (±5%)	TX=1CT: 1CT	RX=1CT: 1CT	
Insertion Loss	-1.0dB MAX	@ 1-100Mhz	
	-1.2dB MAX @	9 100-125Mhz	
Return Loss	-16dB MIN	@ 1-40Mhz	
	-12dB MIN @ 40-60Mhz		
	-10dB MIN (@ 60-80Mhz	
	-8dB MIN @	80-100Mhz	
Cross talk	-30dB MIN (@ 1-100Mhz	
Common Mode Rejection	-30dB MIN (@ 1-100Mhz	
Hi-Pot	1500Vr	ms MIN	

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
	Gold
Contact Plating	Thickness = 6μ " min.
Pins	Brass C2680R-H Thickness = 0.35mm
Shield	Stainless Steel SUS 201-1-1/2H Thickness = 0.2mm

Compliance UL recognized - FILE NO. E528697 RoHS Compliant

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

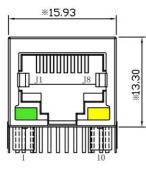


Mechanical

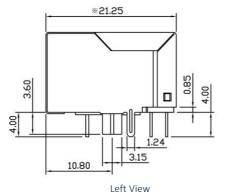
3.

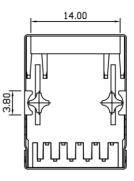
3.1

Mechanical Drawings



Front View





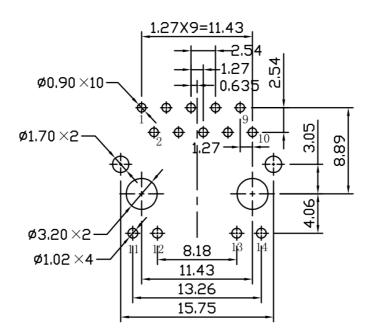
Bottom View

Mecha	nical 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
Nana and in an illing at a	are with the following teleronees, V.V 10.25

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

PCB Layout

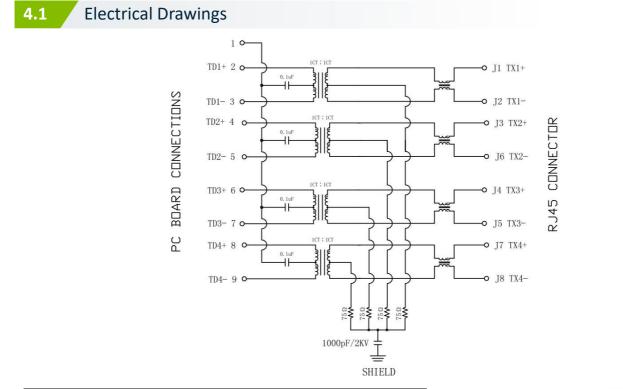
3.2



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



Electrical



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



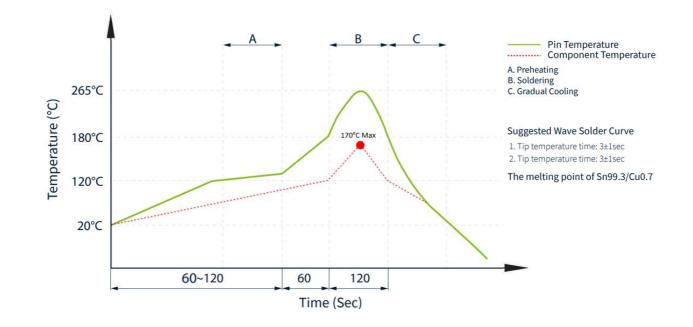
110-

120



4.2

Profile of Wave Solder







5.1 SPQ

50 pcs/tray

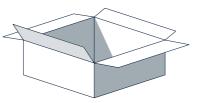
Tray dimension: 299*163*23 mm

Tray Weight: 349g

1 CTN = 24 trays = 1200 pcs

Carton dimensions: 320*300*301 mm

Carton Weight: 9kg





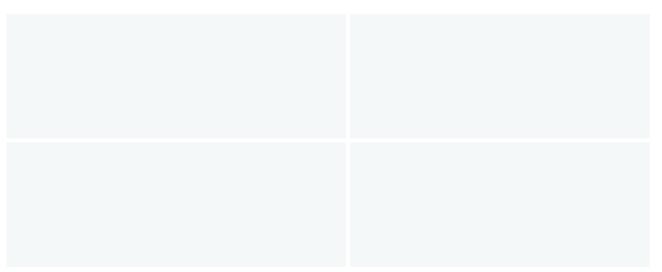
Changelog

Changelog for the datasheet

SPE-22-8-051 – TMJG4933HENL

Revision: A (Original First Release)	
Date:	2022-11-08
Notes:	
Author:	Javier Vasena

Previous Revisions







www.taoglas.com