



RJ45 ICM 1G Base-T Short Body

Part No:

TMJG0803HENL

Description:

RJ45 connector with integrated magnetics 1G Base-T

Single Port Tab-DOWN with right angle THT mount and LEDs

Features:

Short Body

Transformer + CMC + AutoXFMF

Shielded

RoHS Compliant



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1. Introduction



Featuring a popular footprint and compatible package to industry RJ45 Integrated Connectors standards, the Taoglas TMJG0803HENL is an RJ45 Integrated Connector 1G Base-T Single Port Tab Down with 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.



2. Specifications

Electrical Performance @25°C			
Inductance OCL	350uH Min @100KHz, 100mV, 8mA DC Bias		
Turn Ratio	1CT:1CT		
Insertion Loss	-1.2dB Max @ 0.3-100Mhz		
Return Loss	-16dB Max @ 1-30Mhz		
	-13.5dB Max @ 40Mhz		
	-11.5dB Max @ 50Mhz		
	-10dB Max @ 60-80Mhz		
Crosstalk	-40dB Min @ 30Mhz		
	-36dB Min @ 60Mhz		
	-30dB Min @ 100Mhz		
Common Mode Rejection	-35dB Min @ 30Mhz		
	-32dB Min @ 60Mhz		
	-30dB Min @ 100Mhz		
Isolation Voltage	1500Vrms MIN		

Environmental Specifications	
Operating Temperature	0°C TO +70°C

Material Specifications			
Housing	Thermoplastic PBT+30%G. F UL94V-0		
Contact	Phosphor Bonze C5210R-EH Thickness=0.35mm		
Pins	Brass C2680R-H Thickness=0.35mm		
Shield	SUS 201-1/2H Thickness=0.2mm		
Contact plating	Gold 6 micro-inches min. in contact area.		
Wave solder tip temperature	265°C Max, 5 Sec		

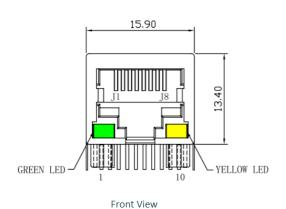
Compliance		
IEEE 802.3		
UL recognized - FILE NO. E528697		
RoHS Compliant		

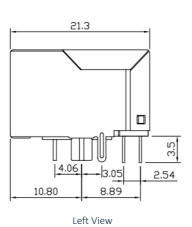
Storage requirements			
Humidity	MSL - 1		
Storage Temperature	-40°C TO +85°C		

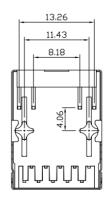


3. Mechanical

3.1 Mechanical Drawings







Bottom View

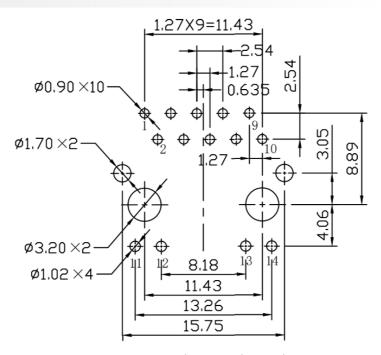
Mechanical Specifications			
Height	13.40mm		
Width	15.90mm		
Depth	21.3mm		
Weight	6.08		
Mounting Style	Through Hole (THT)		
Mounting Angle	Right Angle		

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



Top View

3.2 PCB Layout

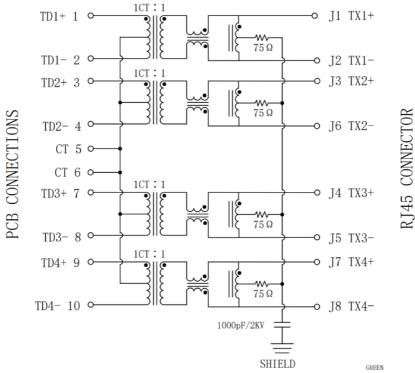


 $\label{eq:Suggested} Suggested\ PCB\ Layout\ (Top\ View)$ Dimensions are in millimeters with the following tolerances: X.XX = ± 0.10



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 μΑ Max

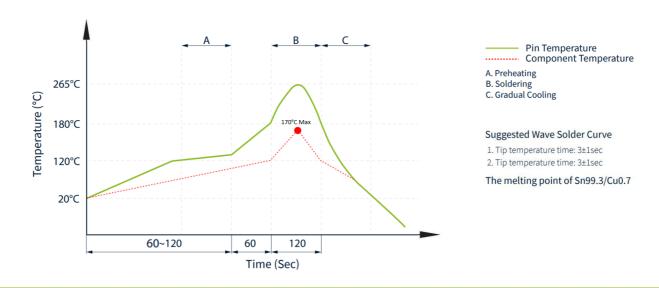




LED PO	COLOD		
PIN 11	PIN 12	COLOR	
		CREEN	

LED PO	RITY COLOR		
PIN 13	PIN 14	COLOR	
+	ı	YELLOW	

4.2 Profile of Wave Solder





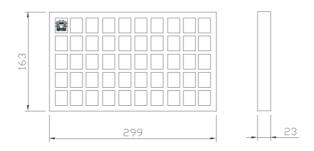
5. Packaging

5.1 SPQ

50 pcs/tray

Tray dimension: 299*163*23 mm

Tray Weight: 365g



1 Carton = 24 trays = 1200 pcs

Carton dimensions: 320*300*310mm

Carton Weight: 9kg



5.2 Label

Taoglas Limited

P/N NO: XXXXXXXX

QYT: XXX PCS DC: XXXX

SPQ Label (8x4cm)

DATE: XXXX-XX-XX

Taoglas Limited

P/N NO: XXXXXXXX

PO: XXXXXXXX

B/N: XXXXXXXX

QYT: XXX PCS

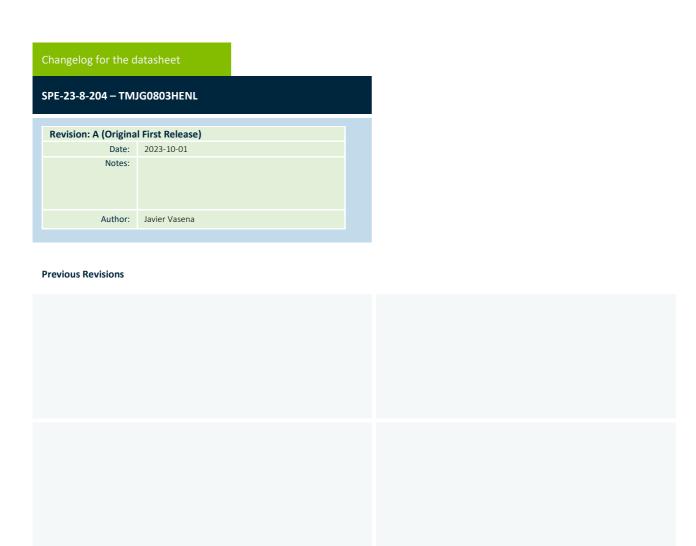
DC: XXXX

DATE: XXXX-XX-XX

Carton Label (8x4cm)



Changelog







www.taoglas.com

