



RJ45 ICM 1G Base-T Vertical

Part No:

TMJD4834BDNL

Description:

RJ45 connector with integrated magnetics 1G Base-7 Single Port Vertical THT mount and LEDs

Features:

Transformer + CMC

Current drive

Shielded Long Body

Industrial grade

RoHS Compliant



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1. Introduction



The Taoglas TMJD4834BDNL is a 1G Base-T single-port, vertical RJ45 Integrated Connector with a shielded long body design. It features a widely recognized footprint and a compatible package that aligns with industry standards for RJ45 Integrated Connectors, making it popular among users.

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, 0.1V, 8mA DC Bias			
Turns Ratio (±3%)	1CT:1CT			
Insertion Loss	-1.1dB MAX @ 1∼100MHz			
Return Loss (100 OHMS ±15%)	-18dB MIN @ 1∼40MHz			
	-14dB MIN @ 60MHz			
	-12dB MIN @ 80MHz			
	-10dB MIN @ 100MHz			
Crosstalk	-40dB MIN @1~30MHz			
	-30dB MIN @30∼60MHz			
CM TO CM REJ	-20dB MIN @1~100MHz			
Hipot	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	Copper alloy Brass H65Y Thickness=0.2mm			
Contact plating	Gold 6 micro-inches min. in contact area.			
Wave solder tip temperature	250°C Max, 5 Sec			

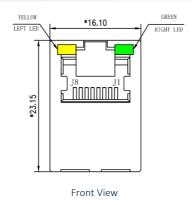
Compliance
UL recognized - FILE NO. E528697
IEEE 802.3
RoHS Compliant

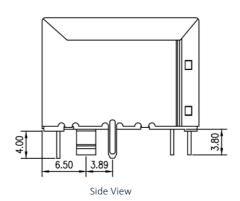
Storage requirements				
Humidity	MSL - 1			
Storage Temperature	-40°C TO +85°C			



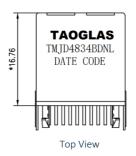
3. Mechanical

3.1 Mechanical Drawings



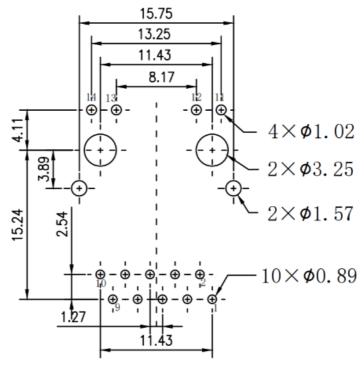


Mechanical Specifications				
Height	16.76mm			
Width	16.10mm			
Depth	23.15mm			
Weight	7.67g			
Mounting Style	Through Hole (THT)			
Mounting Angle	Right Angle			



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

PCB Layout



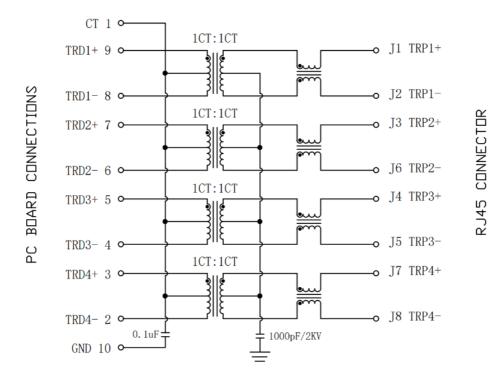
Suggested PCB Layout (Top View)

Dimensions are in millimeters with the following tolerances: $X.XX = \pm 0.10$

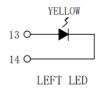


4. Electrical

4.1 Electrical Drawings



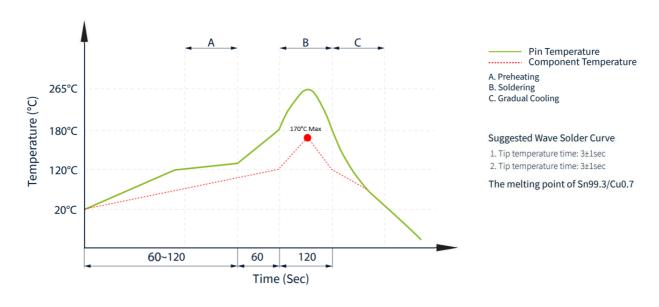
LED Electrical Specification				
Standard LED	Wavelength (nm)	V_F (I_F =20mA)	$I_R (V_R=5v)$	
Green	565	1.8~2.6v	10 μA Max	
Yellow	585	1.8~2.6v	10 μA Max	





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4.2 Profile of Wave Solder





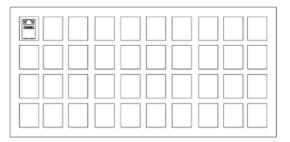
5. Packaging

5.1 SPQ

40 pcs/tray

Tray dimension: 294*154*24.5 mm

Tray Weight: 400g



1 Carton = 25 trays = 1000 pcs

Carton dimensions: 370*300*300mm

DATE: XXXX-XX-XX

Carton Weight: 7.5kg



5.2 Label

Taoglas Limited

P/N NO: XXXXXXXX

QYT: XXX PCS DC: XXXX

SPQ Label (8x4cm)

Taoglas Limited

P/N NO: XXXXXXXX

PO: XXXXXXXX

B/N: XXXXXXXX

QYT: XXX PCS

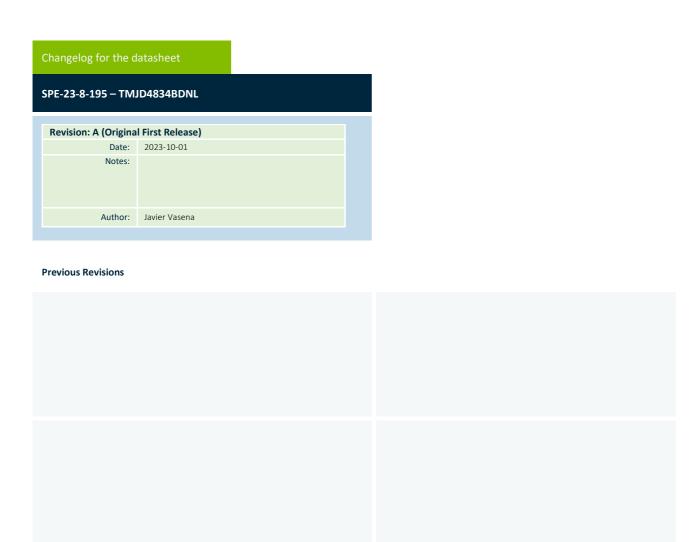
DC: XXXX

DATE: XXXX-XX-XX

Carton Label (8x4cm)



Changelog







www.taoglas.com

