



RJ45 ICM 1G Base-T Vertical

Part No:

TMJD4622BDNL

Description:

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

Features:

Industrial grade

Vertica

RoHS & REACH Compliant



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1. Introduction



Featuring a popular footprint and compatible package to industry RJ45 Integrated Connectors standards, the Taoglas TMJD4622BDNL is an RJ45 Integrated Connector 1G Base-T Single Port Vertical with LED and shielded body.

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	350μH MIN @ 100KHz 0.1V 8mA DC Bias		
Turns Ratio (±2%)	TX=1CT: 1CT	RX=1CT: 1CT	
Transmitter filter & Receiver filter Type	Balance low pass 100Ω impedance		
Insertion Loss	-1.0dB MAX @ 1-100Mhz		
	-1.2dB MAX @ 100-125Mhz		
	-16dB MIN @ 1-40Mhz		
Return Loss	-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	1500VrmsMIN		

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	Copper alloy Brass H65Y Thickness=0.2mm	

Compliance
UL recognized - FILE NO. E528697
RoHS compliant

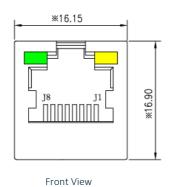
Storage requirements			
Humidity	Storage Temperature		
MSL - 1	-40°C TO +85°C		



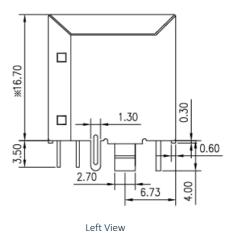
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3. Mechanical

3.1 Mechanical Drawings





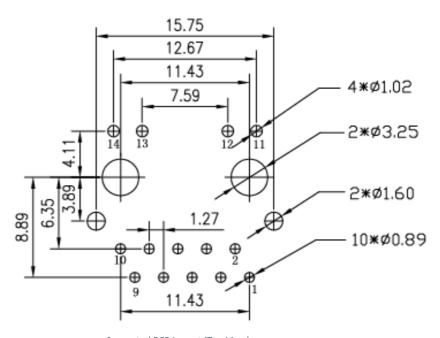


TTOTIC VIEW

Mechanical Specifications		
Height Above Board	0.657" (16.7mm)	
Width	0.665" (16.9mm)	
Depth	0.635" (16.15mm)	
Mounting Style	Through Hole (THT)	
Mounting Angle	Vertical	

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

3.2 PCB Layout

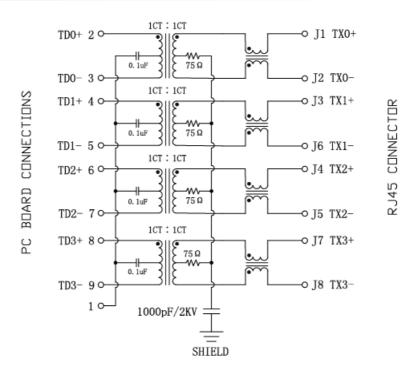


 $\label{eq:Suggested} Suggested\ PCB\ Layout\ (Top\ View)$ Dimensions are in millimeters with the following tolerances: X.XX = ± 0.10



4. Electrical

4.1 Electrical Drawings

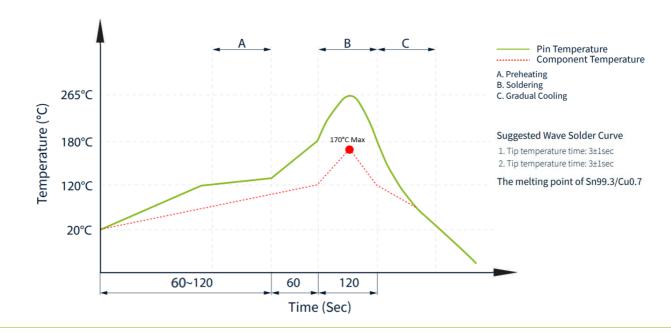


LED Electrical Specification			
Standard LED	Wavelength (nm)	V_F (I_F =20mA)	$I_R (V_R=5v)$
Green	565	1.8~2.6v	10 μA Max
Yellow	585	1.8~2.6v	10 μA Max





4.2 Profile of Wave Solder





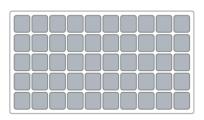
5. Packaging and Storage

5.1 SPQ

50 pcs/tray

Tray dimension: 283*146*24 mm

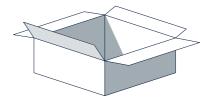
Tray Weight: 347g



1 CTN = 20 trays = 1000 pcs

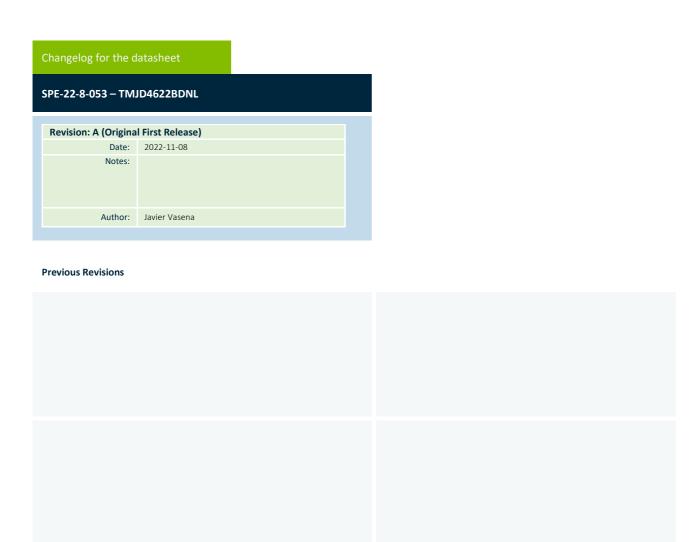
Carton dimensions: 400*320*330mm

Carton Weight: 9kg





Changelog







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