



RJ45 ICM 10/100 Base-T PoE

Part No:

TMJ0277AHNL

Description:

RJ45 connector with integrated magnetics 10/100Base-1

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

Features:

EMI Finger

PoE (350 mA

Short Body

RoHS & REACH Compliant



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1. Introduction



Featuring a popular footprint and compatible package to industry RJ45 Integrated Connectors standards, the Taoglas TMJ0277AHNL is an RJ45 Integrated Connector 10/100Base-T Single Port Tab Down with EMI Finger, its shielded short body design 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	350μH MIN @ 100KHz 0.1V 8mA DC Bias		
Turns Ratio (±5%)	TX=1CT: 1CT	RX=1CT: 1CT	
Insertion Loss	1-100 MHz: -1.2dBMax		
	1-30 MHz: -16		
Return Loss (dB Min)	30-60 MHz: -12		
	60-80 MHz: -10		
Cross talk	1-100 MHz: -30dBMin		
Common Mode Rejection	1-100 MHz: -30dBMin		
DC Current/Voltage Rating - PSE	350 mA @ 57V (continuous)		
Hi-Pot	1500Vrms Min		

Environmental Specifications			
Operating Temperature	0°C TO +70°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		

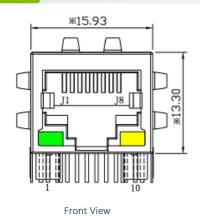
Compliance
UL recognized - FILE NO. E528697
RoHS Compliant

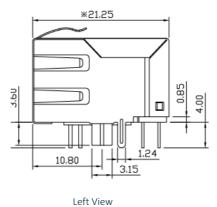
Storage requirements			
Humidity	Storage Temperature		
MSL - 1	-40°C TO +85°C		

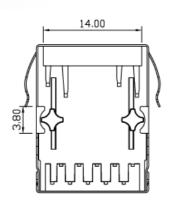


3. Mechanical

3.1 Mechanical Drawings







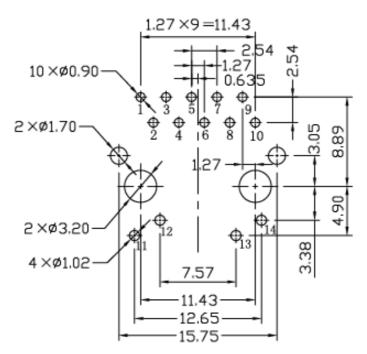
•W	Bottom	View

Mechanical 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		



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

3.2 PCB Layout

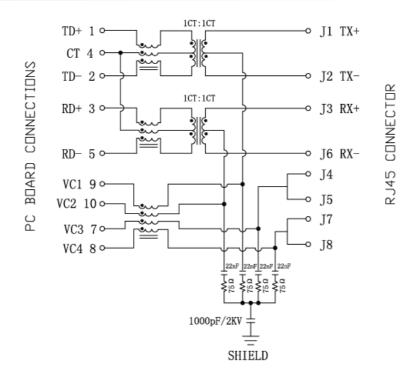


Suggested PCB Layout (Top View) Dimensions are in millimeters with the following tolerances: $X.XX = \pm 0.10$



4. Electrical

4.1 Electrical Drawings

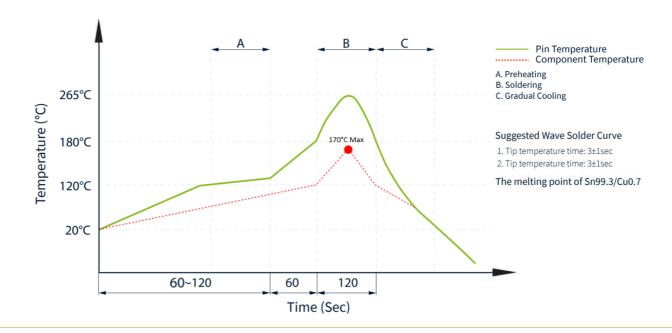


LED Electrical Specification			
Standard LED	Wavelength (nm)	V_F (I_F =20mA)	$I_R (V_R=5v)$
Green	565	1.8~2.6v	10 μA Max
Yellow	585	1.8~2.6v	10 μA Max





4.2 Profile of Wave Solder





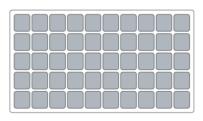
5. Packaging and Storage

5.1 SPQ

50 pcs/tray

Tray dimension: 283*146*24 mm

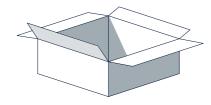
Tray Weight: 347g



1CTN = 24 trays = 1200 pcs

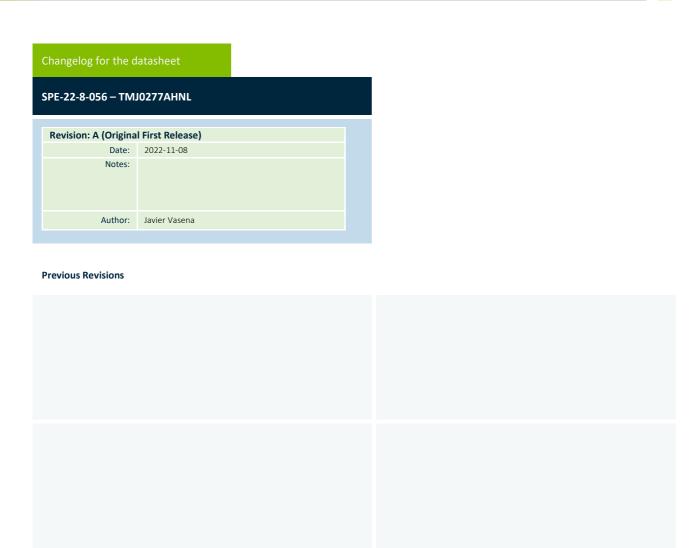
Carton dimensions: 320*300*301 mm

Carton Weight: 9kg





Changelog







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