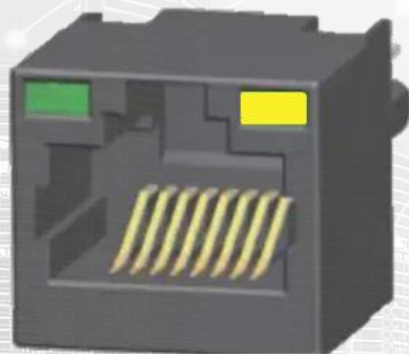




TAOGLAS®



Datasheet

RJ45 ICM 10/100Base-T Vertical Un-Shielded

Part No:
TMJD0152NENL

Description:

RJ45 connector with integrated magnetics 10/100Base-T
Vertical Un-Shielded Single Port with THT mount and LEDs

Features:

PoE
Vertical
RoHS & REACH Compliant

1. Introduction	3
2. Specifications	4
3. Mechanical	5
4. Electrical	6
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Changelog	7

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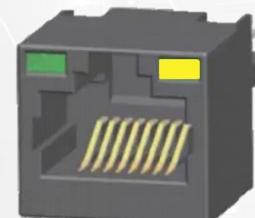
Ireland & USA
ISO 9001:2015
Certified



Taiwan
ISO 9001:2015
Certified



1. Introduction



Featuring a popular footprint and compatible package to industry RJ45 Integrated Connectors standards, the Taoglas TMJD0152NENL is an RJ45 Integrated Connector 10/100Base-T Single Port and Vertical with Un-shielded body and with a schematic that enables PoE 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 @25°C		
Inductance OCL	350μH MIN @ 100KHz 0.1V 8mA DC Bias	
Turns Ratio (±2%)	TX=1CT: 1CT	RX=1CT: 1CT
Insertion Loss	-1.2dB MAX @ 0.1-100Mhz	
Return Loss (@100 ohm)	-16dB MIN @ 1-30Mhz	
	-12dB MIN @ 30-60Mhz	
	-10dB MIN @ 60-80Mhz	
Cross talk	-30dB MIN @ 1-100Mhz	
Common Mode Rejection	-30dB TYP @1-100Mhz	
PoE	400mA Max	
Hi-Pot Test	1500Vrms	

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

Material Specifications	
Housing	Thermoplastic UL94V-0
Contact/Shield	Copper alloy
Contact Plating	Gold
	Thickness = 6μ" min.

Compliance	
RoHS Compliant	

Storage requirements	
Humidity	Storage Temperature
MSL - 1	-50°C TO +125°C



Technical drawing of a mechanical part with the following dimensions:

- Overall height: $\ast 16.70$
- Top flange thickness: 0.30
- Top flange width: 3.30
- Top flange hole diameter: 0.60
- Top flange hole spacing: 2.70
- Top flange hole diameter: 0.30
- Top flange hole spacing: 4.0
- Top flange hole diameter: 0.30
- Top flange hole spacing: 6.50
- Top flange hole diameter: 0.30
- Top flange hole spacing: 0.60

Mechanical Specifications

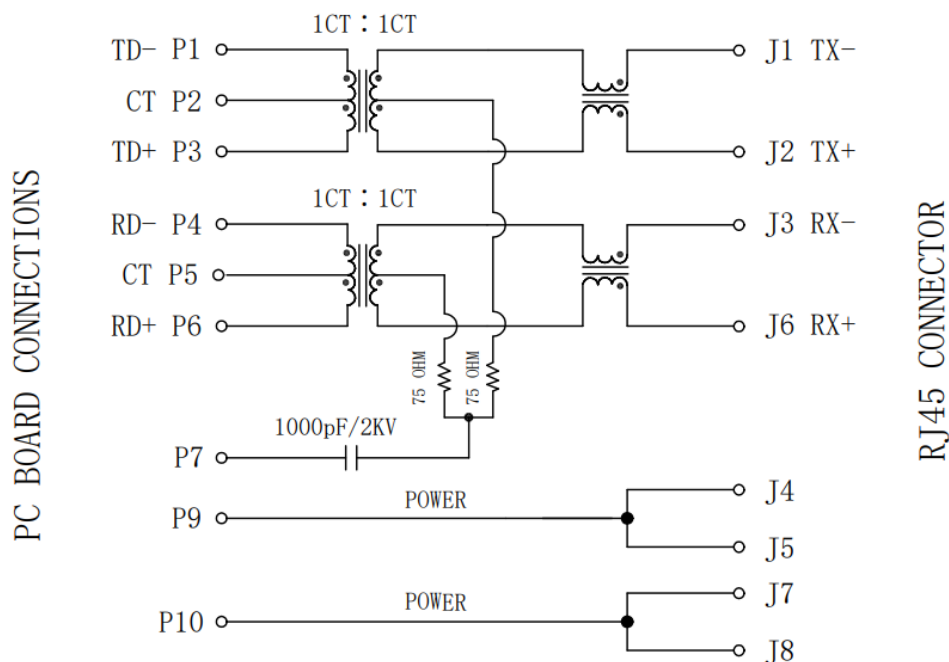
Dimensions are in millimeters with the following tolerances: X.XX = ± 0.25

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Dimensions are in millimeters with the following tolerances: X.XX = ± 0.10

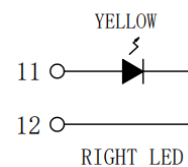
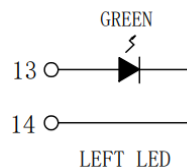
4. Electrical

4.1 Electrical Drawings

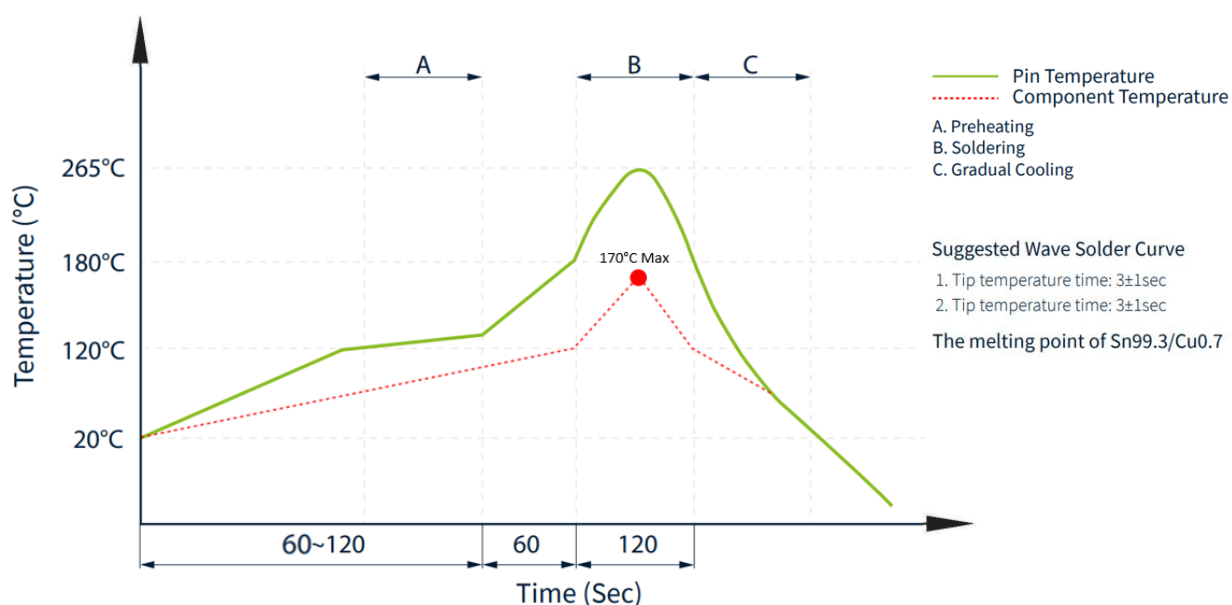


LED Electrical Specification

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



4.2 Profile of Wave Solder



Changelog

Changelog for the datasheet

SPE-23-8-015 – TMJD0152NENL

Revision: A (Original First Release)	
Date:	2023-01-17
Notes:	
Author:	Javier Vasena

Previous Revisions



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