



RJ45 ICM 10/100 Base-T Short Body

Part No: TMJ0011BBNL

Description:

RJ45 connector with integrated magnetics 10/100Base-T Single Port Tab-DOWN with right angle THT mount and LEDs

Features:

AutoMDIX 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 TMJ0011BBNL is an RJ45 Integrated Connector 10/100Base-T Single Port Tab Down with shielded short body design that offers extra space, and with a schematic that enables AutoMDIX features.

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 @2	.5°C	
Inductance OCL	350μH MIN @ 100K	Hz 0.1V 8mA DC Bias	
Turns Ratio (±2%)	TX=1CT: 1CT	RX=1CT: 1CT	
Insertion Loss	-1.0dB MAX	@ 1-100Mhz	
Return Loss	-18dB MIN	@ 1-30Mhz	
	-15dB MIN @ 30-60Mhz		
	-12dB MIN	@ 60-80Mhz	
	-10dB MIN (@ 80-100Mhz	
Cross talk	-40dB MII	N @ 30Mhz	
	-35dB MII	N @ 60Mhz	
	-30dB MIN	l @ 100Mhz	
Common Mode Rejection	-40dB MII	N @ 30Mhz	
	-35dB MII	N @ 60Mhz	
	-30dB MIN	l @ 100Mhz	
Hi-Pot	1500Vrms	s, 1mA, 60s	

Environmental Specifications

Operating Temperature

0°C TO +70°C

Material Specifications	
Thermoplastic PBT+30%G. F UL94V-0	
Phosphor Bronze C5210R-EH Thickness = 0.35 mm	
Gold	
Thickness = 6μ" min.	
Brass C2680R-H	
Thickness = 0.35 mm	
Stainless Steel SUS 201-1/2H Thickness = 0.2 mm	

Compliance

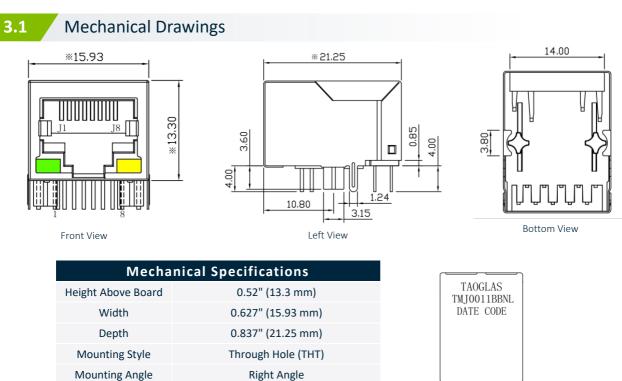
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RoHS Compliant

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



Mechanical

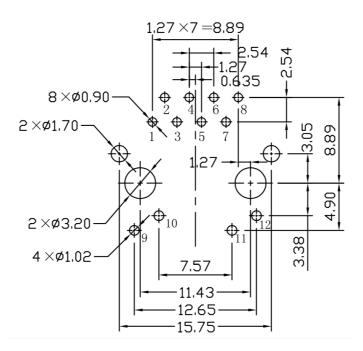


Top View

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

3.2

PCB Layout



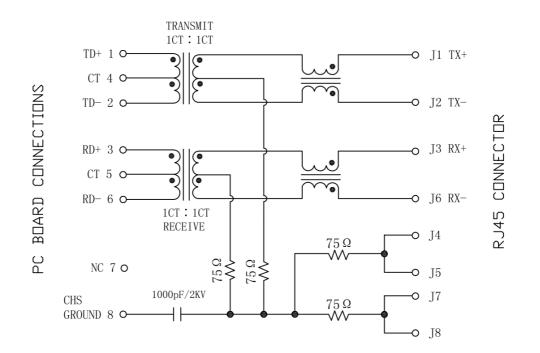
Suggested PCB Layout (Top View) Dimensions are in millimeters with the following tolerances: X.XX = ± 0.10

3.



Electrical

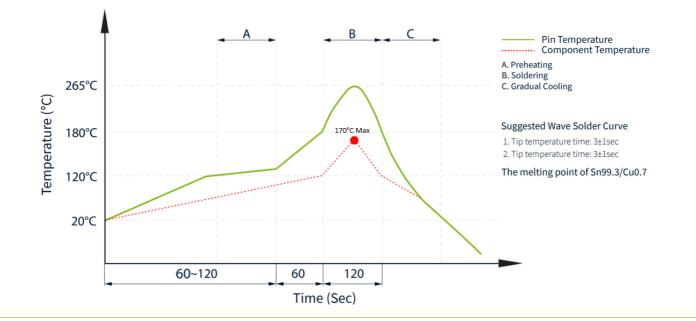
Electrical Drawings



	LED Electrica	Specification		GREEN	YELLOW
Standard LED	Wavelength (nm)	V _F (I _F =20mA)	I _R (V _R =5v)		12 0
Green	565	1.8~2.6v	10 µA Max	10 0	11 0
Yellow	585	1.8~2.6v	10 µA Max	LEFT LED	RIGHT LED



Profile of Wave Solder



4.1





5.1 SPQ

50 pcs/tray

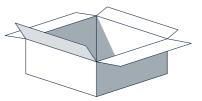
Tray dimension: 299*163*23 mm

Tray Weight: 296 g

1CTN = 24 trays = 1200 pcs

Carton dimensions: 320*300*301 mm

Carton Weight: 9 kg





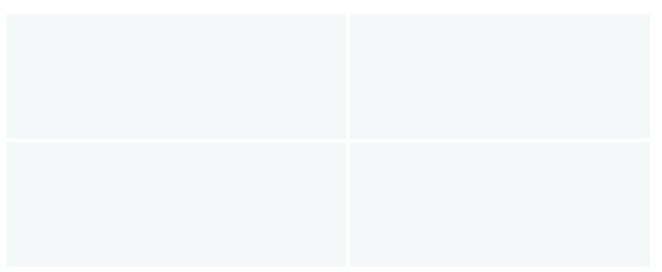
Changelog

Changelog for the datasheet

SPE-22-8-076 – TMJ0011BBNL

Revision: A (Original First Release)	
Date:	2022-11-08
Notes:	
Author:	Javier Vasena

Previous Revisions







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