

RJ45 ICM 1G Base-T Long Body

Part No: TMJK071AWNL

Description:

RJ45 connector with integrated magnetics 1G Base-T Single Port Tab-UP with right angle THT mount and LEDs

Features:

Long Body Transformer + CMC + AutoXFMR Shielded EMI Finger RoHS Compliant

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Introduction



Featuring a popular footprint and compatible package to industry RJ45 Integrated Connectors standards, the Taoglas TMJK071AWNL is an RJ45 Integrated Connector 1G Base-T Single Port Tab UP with Shielded EMI Finger and long body design.

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

ctrical Performance @25°C
350uH MIN @100KHz 0.1V 8mA DC Bias
1CT:1CT
-1.0dB MAX @1-100MHz
-18dB MIN @1-30MHz
-15dB MIN @30-60MHz
-12dB MIN @60-100MHz
-40dB MIN @30MHz
-35dB MIN @60MHz
-30dB MIN @100MHz
-30dB MIN @1-100MHz
1500Vrms

Environmental Specifi	cations
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Operating Temperature

0°C TO +70°C

Material Specifications	
Housing	Thermoplastic PBT+30%G. F UL94V-0
Contact	Phosphor Bonze 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	260°C Max, 5 Sec

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

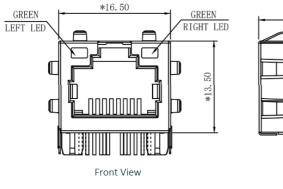
	Storage requirements
Humidity	MSL - 1
Storage Temperature	-40°C TO +85°C

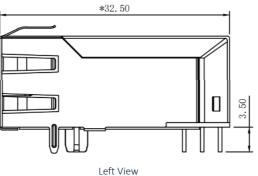


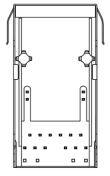
Mechanical

3.

3.1 Mechanical Drawings

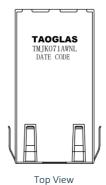






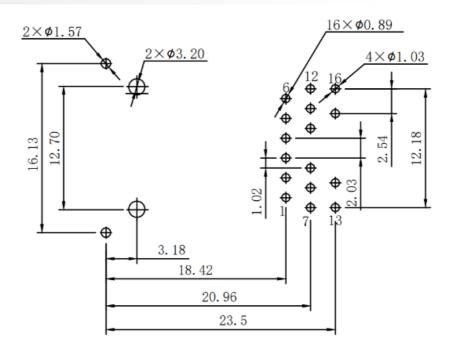
Bottom View

Mechanical Specifications		
Height	13.50mm	
Width	16.50mm	
Depth	32.50mm	
Weight	8.9g	
Mounting Style	Through Hole (THT)	
Mounting Angle	Right Angle	



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

SPE-23-8-203-A

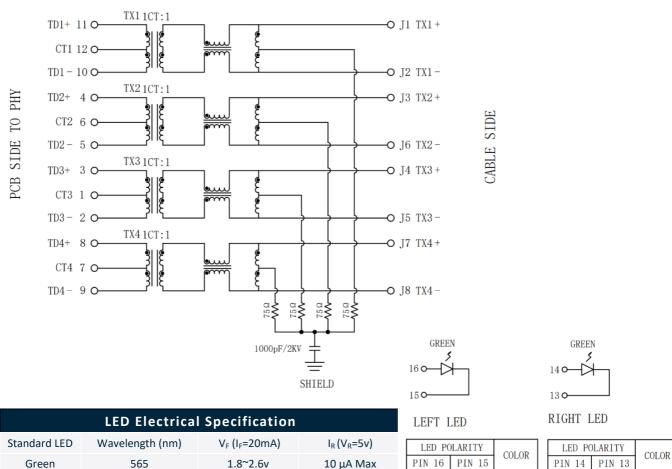


Electrical



4.

Electrical Drawings

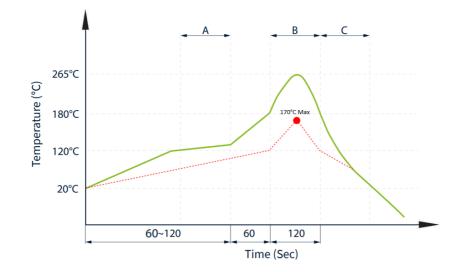


	opeenication					
length (nm)	V _F (I _F =20mA)	I _R (V _R =5v)	LED PO	DLARITY	001.00	
565	1.8~2.6v	10 µA Max	PIN 16	PIN 15	COLOR	
			+	-	GREEN	

LED PO	DLARITY	COLOR
PIN 14	PIN 13	COLOR
+	-	GREEN







Pin Temperature Component Temperature A. Preheating B. Soldering

C. Gradual Cooling

Suggested Wave Solder Curve

1. Tip temperature time: 3±1sec

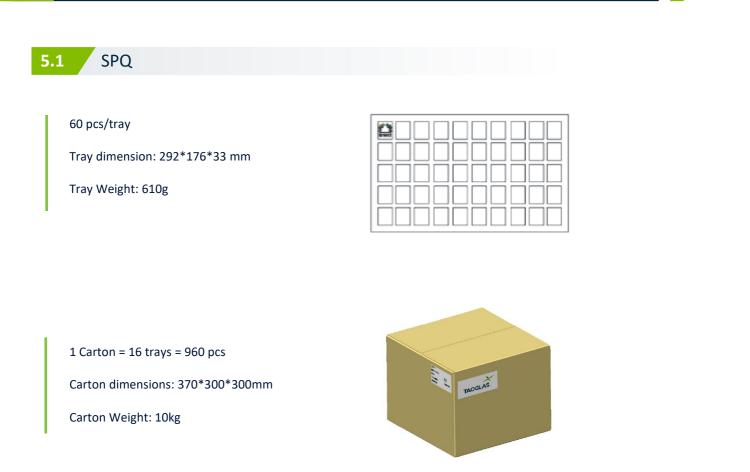
2. Tip temperature time: 3±1sec

The melting point of Sn99.3/Cu0.7





Packaging



5.2 Label

Taogla	s Limited	
P/N NO: XXXXXXXX		
QYT: XXX PCS	DC: XXXX	SPQ Label (8x4cm)
DATE: XXXX-XX-XX		
Taogla	s Limited	7
P/N NO: XXXXXXXX		
PO: XXXXXXXX	B/N: XXXXXXXX	Carton Label (8x4cm)
QYT: XXX PCS	DC: XXXX	
DATE: XXXX-XX-XX		

SPE-23-8-203-A



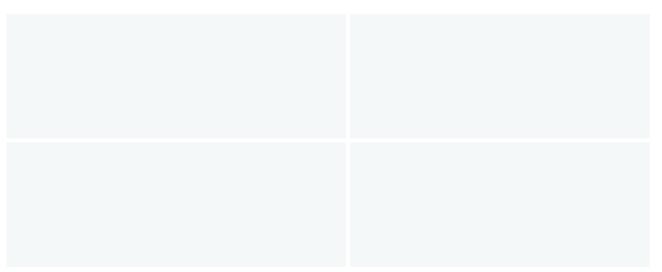
Changelog

Changelog for the datasheet

SPE-23-8-203 – TMJK071AWNL

Revision: A (Original First Release)		
Date:	2023-10-01	
Notes:		
Author:	Javier Vasena	

Previous Revisions







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