



RJ45 ICM 10/100 Base-T Short Body

Part No:

TMJUTHW0021192420

Description:

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

Features:

Short Body

Transformer + CMC

Industrial grade

Shielded EMI Finger

15μ" gold

RoHS Compliant



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1. Introduction



Featuring a popular footprint and compatible package to industry RJ45 Integrated Connectors standards, the Taoglas TMJUTHW0021192420 is an RJ45 Integrated Connector 10/100 Base-T Single Port Tab Down with shielded EMI Finger and short body design for 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				
OCL	350uH MIN @100KHZ,0.1V 8mA DC BIAS			
Turns Ratio (±2%)	1CT:1CT			
Insertion Loss	-1.0 dB Max @ 0.1MHz-100MHz			
Return Loss	-20 dB Min @ 1MHz-30MHz			
	-16 dB Min @ 30MHz -60MHz			
	-12 dB Min @ 60MHz -80MHz			
	-10 dB Min @ 80MHz -100MHz			
CM to CM Mode Attenuation	-30 dB Min @ 1MHz-100MHz			
Cross Talk	-40 dB Min @ 1MHz-30MHz			
	-35 dB Min @ 30MHz-60MHz			
	-30 dB Min @ 60MHz-100MHz			
Hipot (Isolation Voltage)	1500V AC & 2250V DC 6S 1mA PRI TO SEC			

Environmental Specifications				
Operating Temperature	-40°C TO +85°C			

Material Specifications				
Housing	PBT, UL94 V-0, Black.			
Terminals Bracket	PBT, UL94V-0, Black.			
Shield	C2680, T=0.20mm, nickel plating on all area.			
Terminal	Phosphor Bronze C5210, T=0.35mm.			
	15μ" gold plating on contact area.			
Durability	750 cycles min.			
Mating Force	23N Max.			
Wave solder tip temperature	260°C Max, 5 Sec			

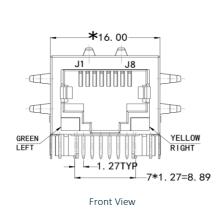
Compliance		
IEEE 802.3		
RoHS Compliant		

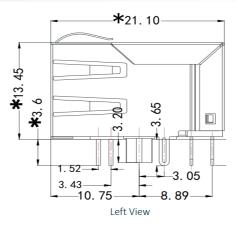
Storage requirements			
Humidity	MSL - 1		
Storage Temperature	-40°C TO +85°C		

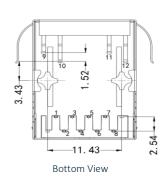


3. Mechanical

3.1 Mechanical Drawings



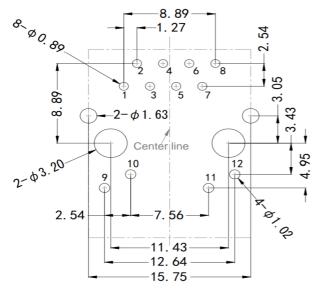




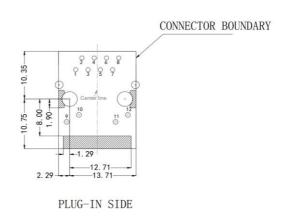
Mechanical Specifications				
Height	13.45mm			
Width	16.00mm			
Depth	21.10mm			
Mounting Style	Through Hole (THT)			
Mounting Angle	Right Angle			



3.2 PCB Layout



Suggested PCB Layout (Top View)



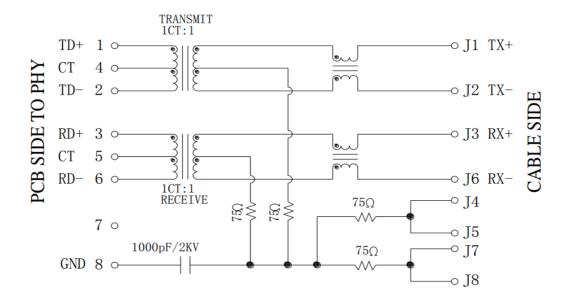
Keep-out Area (Component Side View)

Dimensions are in millimeters with the following tolerances: $X.XX = \pm 0.10$

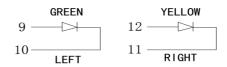


Electrical

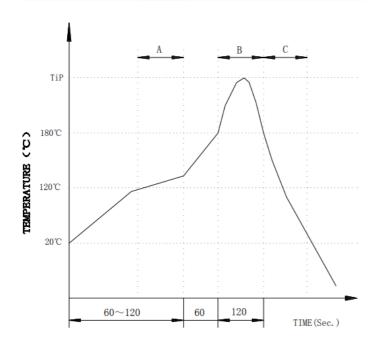
Electrical Drawings



LED Electrical Specification				
Standard LED	Wavelength (nm)	V_{F}	I _F	
Green	568	1.85-2.45V	20 μΑ	
Yellow	585	1.7-2.2V	20 μΑ	



4.2 Profile of Wave Solder



A.Preheating B.Soldering C.Gradual Cooling Tip temperature:260±5 ℃. Tip temperature time:5Sec Max.

Tip melting point of Sn96.5/Ag3/Cu0.5:217 ℃.

Remarks: after wave soldering, the plastic positioning columns of the product which under the PCB will be slightly melted, but it won't affect its function.

www.taoglas.com SPE-23-8-159-A



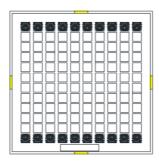
5. Packaging

5.1 SPQ

120 pcs/tray

Tray dimension: 305*300*21 mm

Tray Weight: 875g



1 Carton = 9 trays = 1080 pcs

Carton dimensions: 330*330*210mm

Carton Weight: 7.85kg



5.2 Label

Taoglas Limited

P/N NO: XXXXXXXX

PO: XXXXXXXX B/N: XXXXXXXX

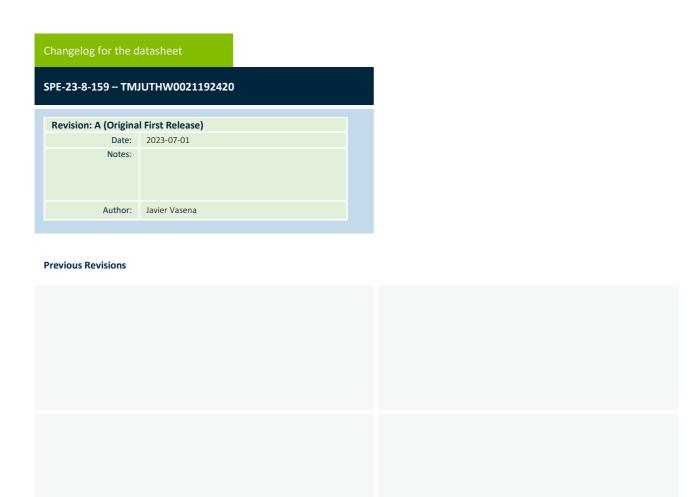
QYT: XXX PCS DC: XXXX

DATE: XXXX-XX-XX

Carton Label (8x4cm)



Changelog







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