



### RJ45 ICM 10/100 Base-T Dual Port

#### Part No:

TMJ26515-8AENL

#### **Description:**

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

#### Features:

1x2 Configuration

Transformer + CMC

Shielded EMI Finger

Industrial grade

RoHS Compliant



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### 1. Introduction



The Taoglas TMJ26515-8AENL is a 10/100 Base-T Dual-port, tab-DOWN RJ45 Integrated Connector with a shielded EMI Finger and short body design. It features a widely recognized footprint and a compatible package that aligns with industry standards for RJ45 Integrated Connectors, making it popular among users.

**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 (±3%)	1CT:1CT				
DCR	1.2Ω MAX				
Insertion Loss	-1.0dB MAX @1-100MHz				
Return Loss	18dB MIN @1-30MHz				
	-15dB MIN @30-60MHz				
	-12dB MIN @60-100MHz				
Crosstalk	-40dB MIN @30MHz				
	-35dB MIN @60MHz				
	-30dB MIN @100MH				
Common Mode Rejection	-30dB MIN @1-100MHz				
Isolation PHY SIDE To Line SIDE	1500Vrms				

### **Environmental Specifications**

Operating Temperature -40°C TO +85°C

Material Specifications					
Housing	Thermoplastic PBT+30%G.F UL94V-0				
Contact	Phosphor Bronze C5210R-EH Thickness=0.35mm				
Pins	Brass C2680R-H Thickness=0.35mm				
Shield	SUS 201-1/2H Thickness=0.2mm				
Contact plating	Gold 30 micro-inches min. in contact area				
Wave solder tip temperature	250°C Max, 5 Sec				

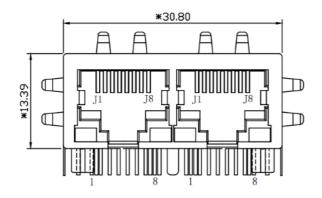
Compliance			
UL recognized - FILE NO. E528697			
IEEE 802.3			
RoHS Compliant			

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

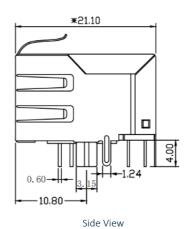


## 3. Mechanical

### 3.1 Mechanical Drawings

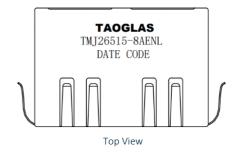


Front View

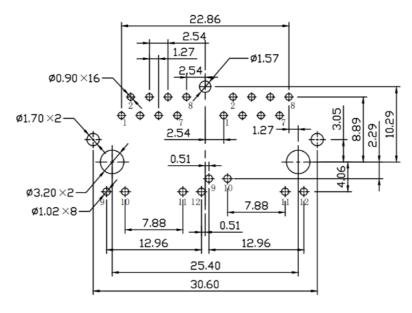


Mechanical Specifications						
Height	13.39 mm					
Width	30.80 mm					
Depth	21.10 mm					
Weight	10 g					
Mounting Style	Through Hole (THT)					
Mounting Angle	Right Angle					

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



### 3.2 PCB Layout

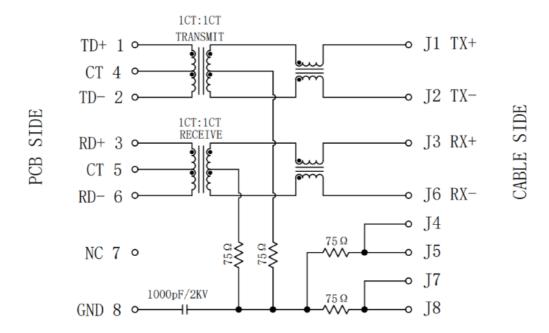


 $\label{eq:Suggested PCB Layout (Top View)}$  Dimensions are in millimeters with the following tolerances: X.XX =  $\pm 0.10$ 

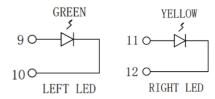


## 4. Electrical

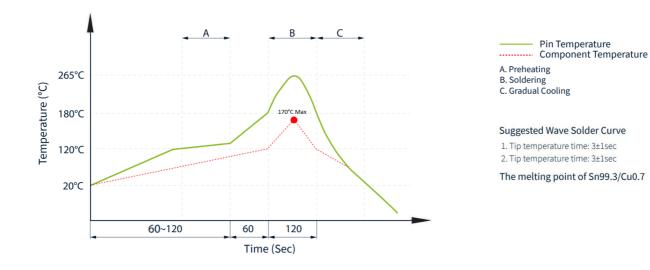
#### 4.1 Electrical Drawings



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





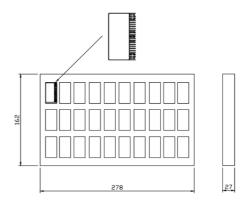
## 5. Packaging

#### 5.1 SPQ

30 pcs/tray

Tray dimension: 278\*162\*27 mm

Tray Weight: 0.38 kg



#### 5.2 Carton

1 Carton = 20 trays = 600 pcs

Carton dimensions: 300\*370\*300 mm

Carton Weight: 8.3 kg



#### 5.3 Label

Taoglas Limited
P/N NO: XXXXXXXX

QYT: XXX PCS DC: XXXX

DATE: XXXX-XX-XX

SPQ Label (8x4cm)

Taoglas Limited

P/N NO: XXXXXXXX

PO: XXXXXXXXX B/N: XXXXXXXX

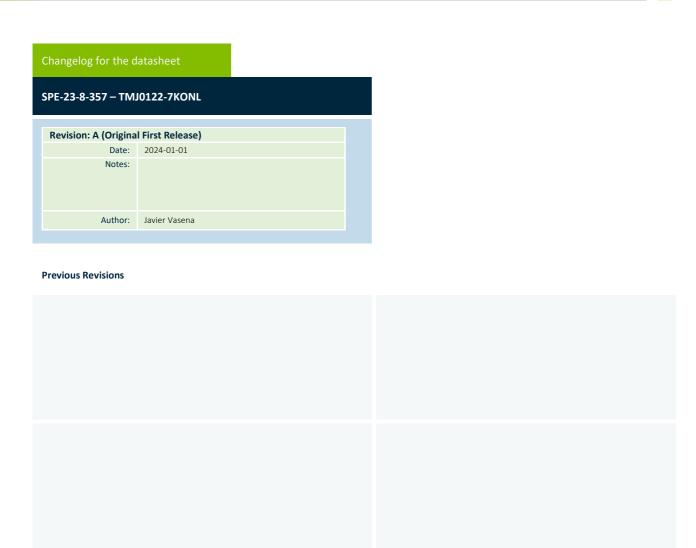
QYT: XXX PCS DC: XXXX

DATE: XXXX-XX-XX

Carton Label (8x4cm)



# Changelog







www.taoglas.com

