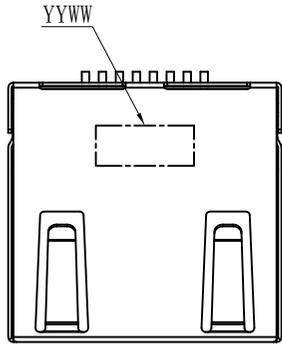


# GP Component

REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
A5.5			Modify Led Size	2025/06/04	Vince
A5.6			Add Schematic diagram of gold-plated contact surface	2025/06/10	Vince
A5.7			Add Mechanical Item 9	2025/06/10	Vince
A6			Delete the left and right shrapnel of the iron shell	2025/08/25	Vince



MATRIX PART NO:

MRJN - 11S 2010 T RS  
 Matrix-RJ45  
 F: 10/100  
 G: 10/100/1000  
 N: Pure Connector  
 RS: ROHS  
 HF: Halogen Free  
 Industrial temperature  
 Series Number  
 11:1X1 : 21:2X1  
 12:1X2 : 22:2X2  
 14:1X4 : 24:2X4  
 16:1X6 : 26:2X6  
 18:1X8 : 28:2X8  
 10:RJ+USB  
 S: SMD  
 T: THT

**ELECTRICAL:**

- VOLTAGE RATING: 125 VAC RMS
- CURRENT RATING: 1.5 AMP
- CONTACT RESISTANCE: 40mΩ MAX.
- INSULATION RESISTANCE: 500MΩMIN. AT 500V DC.
- DIELECTRIC STRENGTH: 1000 VDC 50HZ 1MINUTE.

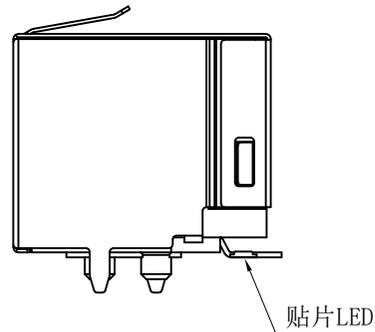
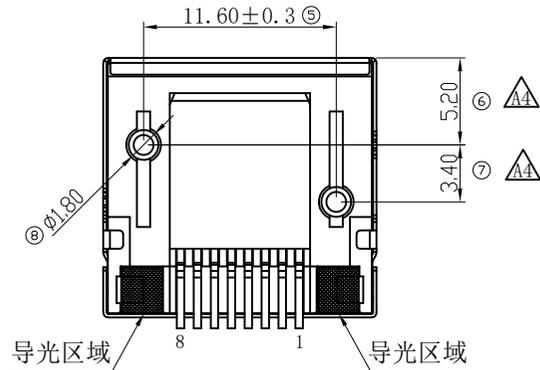
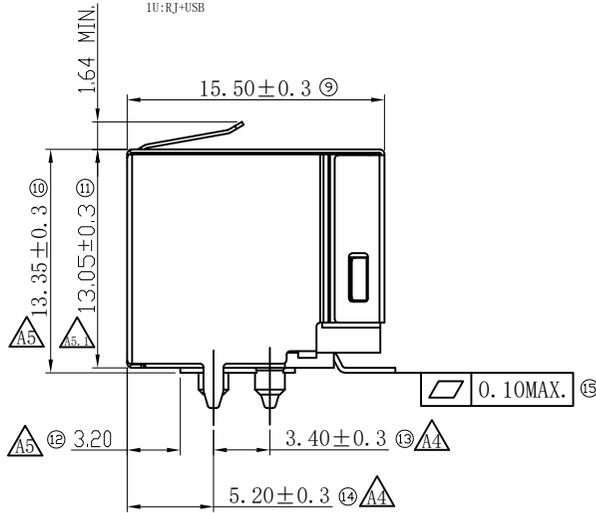
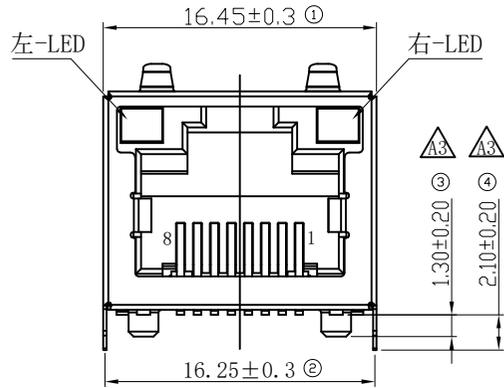
**MECHANICAL:**

- PLASTIC MATERIAL:
  - LCP UL94V-0 RATED,COLOR BLACK.
  - EPOXY RESIN UL94V-0 RATED,COLOR TRANSPARENT.
- CONTACT MATERIAL: COPPER ALLOY.
- CONTACT PLATING:
 

PLATED NICKEL 30U"MIN. UNDER PLATING ALL, PLATED TIN ON SOLDER TAILS 100U" MIN. GOLD PLATED ON CONTACT AREA 3U".
- SHIELD: COPPER ALLOY PLATED WITH NICKEL30U"MIN.
- OPERATING LIFE: 750 CYCLES MIN.
- MATING FORCE: 20N MAX. UNMATING FORCE: 50N MAX.
- REFLOW SOLDERING TEMP.: 255±5° 5-10 SECONDS.
- JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 68, SUBPART F.
- JACK CAVITY CONFORMS TO IEC60603-7 .

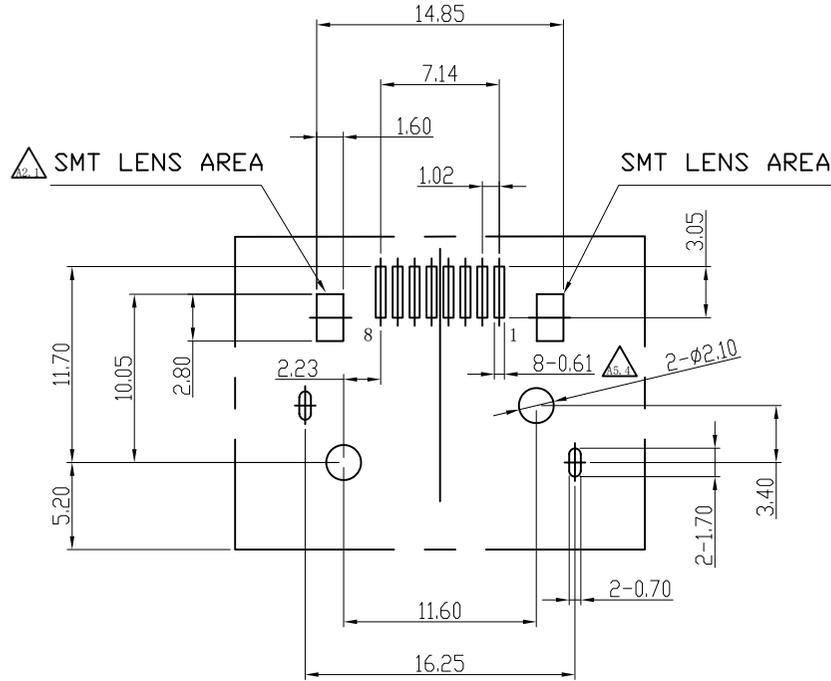
**ENVIRONMENTAL:**

- STORAGE: -40°C TO +85°C
- OPERATION: -40°C TO +85°C

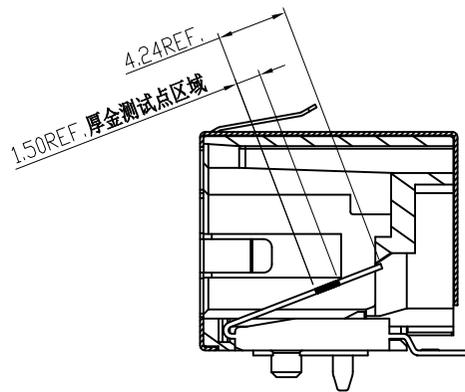


 <b>Matrix Electronics Co., Ltd</b>					
<b>TOLERANCE:</b> X:X ±0.38 X:XX ±0.25 X:XXX ±0.13 ANGLE: ±3°		<b>DESIGN BY :</b> Vince Chen	<b>DATE :</b> 2025/08/25	<b>PART NAME:</b> RJ45 1X1 PCB JACK WITH LED SMT TYPE	
UNIT: mm [inch] SCALE:1:1 SIZE:A4		<b>CHECKED BY:</b> Hanson Huang	<b>DATE :</b> 2025/08/25	<b>PART NO.</b> MRJN-11S2010TRS	
		<b>APPROVED BY1:</b> Richard Hsieh	<b>DATE :</b> 2025/08/25	<b>MOLD NO.</b> NA	
		<b>APPROVED BY2:</b> Richard Hsieh	<b>DATE :</b> 2025/08/25	<b>DRAW NO.</b>	
				<b>SHEET NO.</b> 1 OF 2	

# GP Component

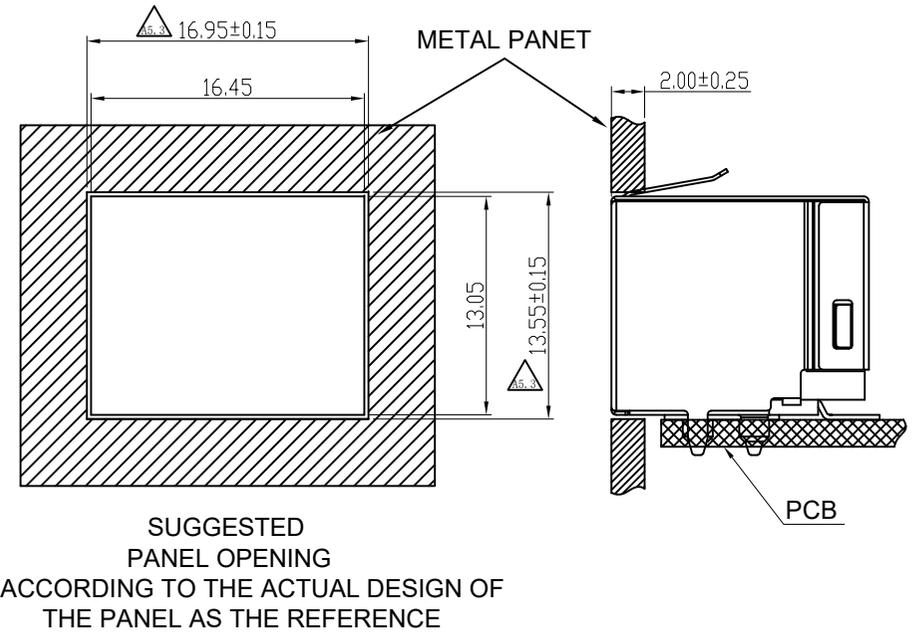


Recommend PCB Layout  
(Jack Top View)  
TOLERANCES:±0.05



GOLD-PLATED CONTACT AREA

REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
A5.5			Modify Led Size	2025/06/04	Vince
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SUGGESTED  
PANEL OPENING  
ACCORDING TO THE ACTUAL DESIGN OF  
THE PANEL AS THE REFERENCE



Matrix Electronics Co., Ltd

TOLERANCE: X.X ±0.38 X.XX ±0.25 X.XXX ±0.13 ANGLE: ±3	DESIGN BY : Vince Chen	DATE : 2025/08/25	PART NAME: RJ45 1X1 PCB JACK WITH LED SMT TYPE	
 UNIT: mm [inch] SCALE:1:1 SIZE:A4	CHECKED BY: Hanson Huang	DATE : 2025/08/25	PART NO.	MRJN-11S2010TRS
	APPROVED BY1: Richard Hsieh	DATE : 2025/08/25	MOLD NO.	NA
	APPROVED BY2: Richard Hsieh	DATE : 2025/08/25	DRAW NO.	
			SHEET NO.	2 OF 2