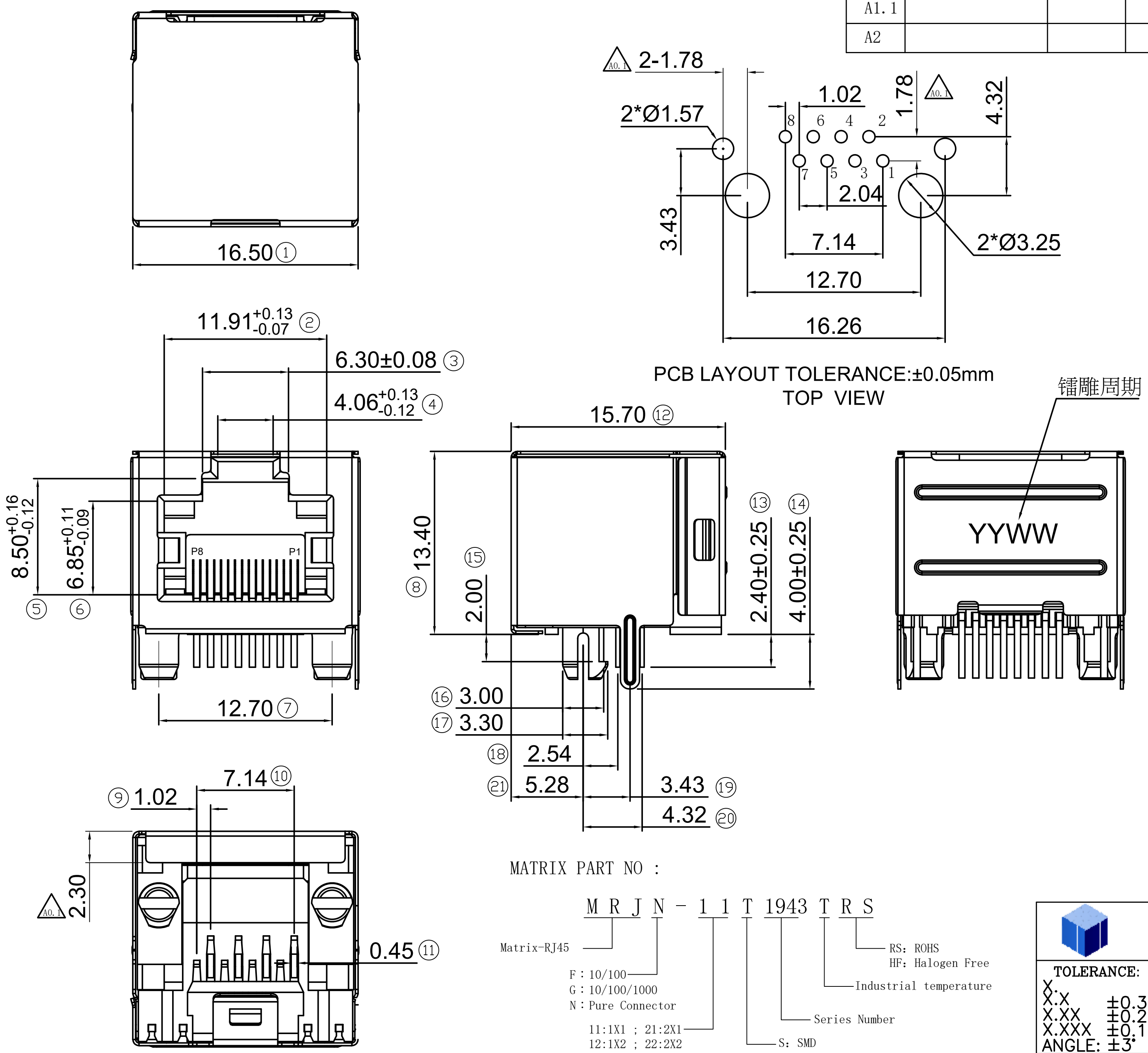
GP Component

REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
A1			Modify Current Rating => 2A	2025/08/01	Vince
A1.1			Modify Electrical	2025/08/11	Vince
A2			Modify Operating temperature 95° => 100°	2025/08/25	Vince



PCB LAYOUT TOLERANCE:±0.05mm
TOP VIEW

NOTES:

1. MATERIALS:
   HOUSING: PBT , BLACK (UL94V-0).
   CONTACTS: PHOSPHOR BRONZE T=0.30mm.
   SHIELD：C2680,T=0.20mm

2. FINISH:
   CONTACT: 50U" NICKE LUNDERPLAT ON ALL AREA.
   100U"MIN. TIN ON SOLDERTAILS.
   6U" GOLD PLATED ON CONTACT AREA.
   SHIELD:COPPER ALLOY PLATED WITH NICKEL.

A2 3. OPERATING TEMPERATURE： -40°C ~ +100°C.

4. STORAGE TEMPERATURE: -40℃ ~ +85℃.

5. JACK CAVITY CONFORMS TO FCC RULES AND. REGULATIONS PART 68, SUBPART F.

6. THIS PRODUCT IS A WAVE-SOLDERING SOLDERING PROCESS.

7. ELECTRICAL:
7-1 VOLTAGE RATING: 125 VAC RMS
A1.1 7-2 CURRENT RATING PER PIN: 2 AMP.
7-3 CONTACT RESISTANCE: 40mΩ MAX.
7-4 INSULATION RESISTANCE: 1000MΩMIN. AT 500V DC.
7-5 DIELECTRIC STRENGTH: 1000 VAC 50Hz 1MINUTE.

8. PACKING SPEC
8-1 ESD LEVEL: 1C （The Product Itself Has No Static Electricity Requirement Except LED）.
8-2 HALOGEN FREE: NO
8-3 LEAD-FREE: METTS LEAD-FREE.
8-4 MSL LEVEL: LEVEL 2 (1 Year).
8-5 PACKING: BLISTER PACK.

MATRIX PART NO :

M R J N - 1 1 T 1943 T R S

Matrix-RJ45

F : 10/100
G : 10/100/1000
N : Pure Connector

11:1X1 ; 21:2X1
12:1X2 ; 22:2X2
14:1X4 ; 24:2X4
16:1X6 ; 26:2X6
18:1X8 ; 28:2X8
1U:RJ+USB

S: SMD
T: THT

Series Number

Industrial temperature

RS: ROHS
HF: Halogen Free

Matrix Electronics Co.,Ltd

TOLERANCE:	DESIGN BY : Vince Chen	DATE : 2025/08/25	PART NAME: RJ45 1X1 TAB UP	
X. X.X ±0.38	CHECKED BY: Hanson Huang	DATE : 2025/08/25	PART NO.	MRJN-11T1943TRS
X.XX ±0.25	APPROVED BY1: Richard Hsieh	DATE : 2025/08/25	MOLD NO.	NA
X.XXX ±0.13 ANGLE: ±3°	APPROVED BY2: Richard Hsieh	DATE : 2025/08/25	DRAW NO.	
UNIT: mm [inch]			SHEET NO.	1 OF 2
SCALE:1:1	SIZE:A4			