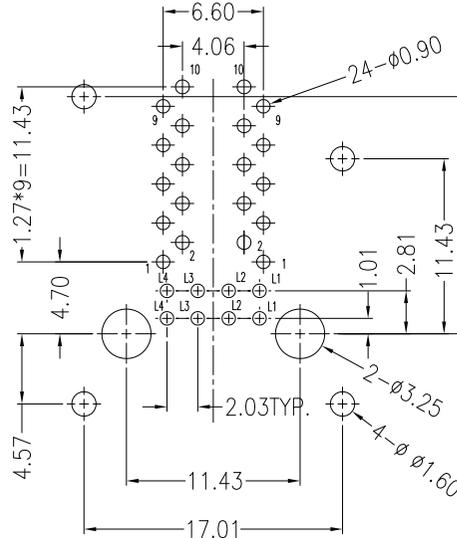
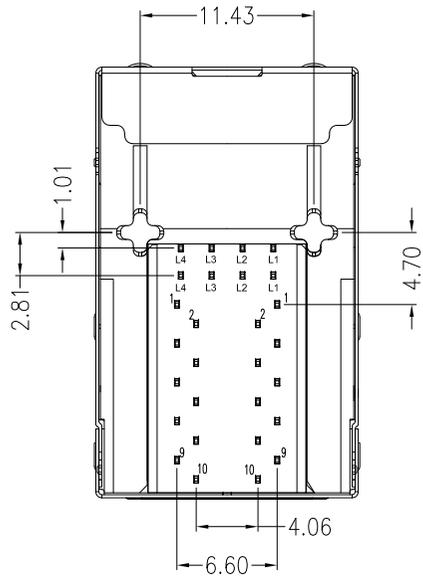
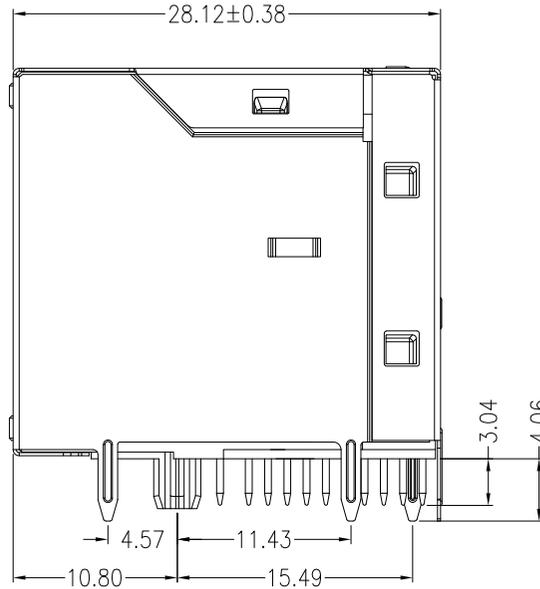
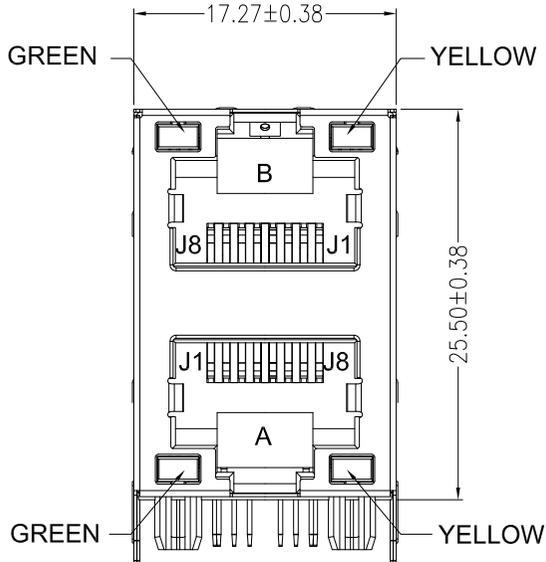


GP Component

1. MECHANICAL DIMENSIONS :



RECOMMENED PCB LAYOUT
COMPONENT SIDE
TOLERANCE ±0.05

REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
A0			Initial	2018/02/23	Phebe Su
A1			Change PBT to PA66	2018/04/03	Phebe Su
A2			Add LED PCB Layout Position	2022/03/29	Vince
A3			Modify Shield Exterior & Housing Material	2023/12/20	Vince

NOTES:

- 1.MATERIAL:
 △1 △3 HOUSING: LCP BLACK UL94V-0
 CONTACTS:PHOSPHOR BRONZE
 GOLD FLASH ON CONTACT AREA, TIN PLATING ON SOLERTAIL
 SHIELD : COPPER ALLOY
 NICKEL PLATING OVERALL
2. CAVITY CONFIRMS TO FCC RULES AND REGULATIONS
 PART 68,SUBPART F.
3. OPERATING TEMPERATURE:0°C TO 70°C



Printing:

MATRIX
MRJF-21T813RS
YYWW

ORDER INFORMATION :

MRJF-21T813RS

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

RS : ROHS
HF : Halogen Free
Series Number

S : SMD
T : THT

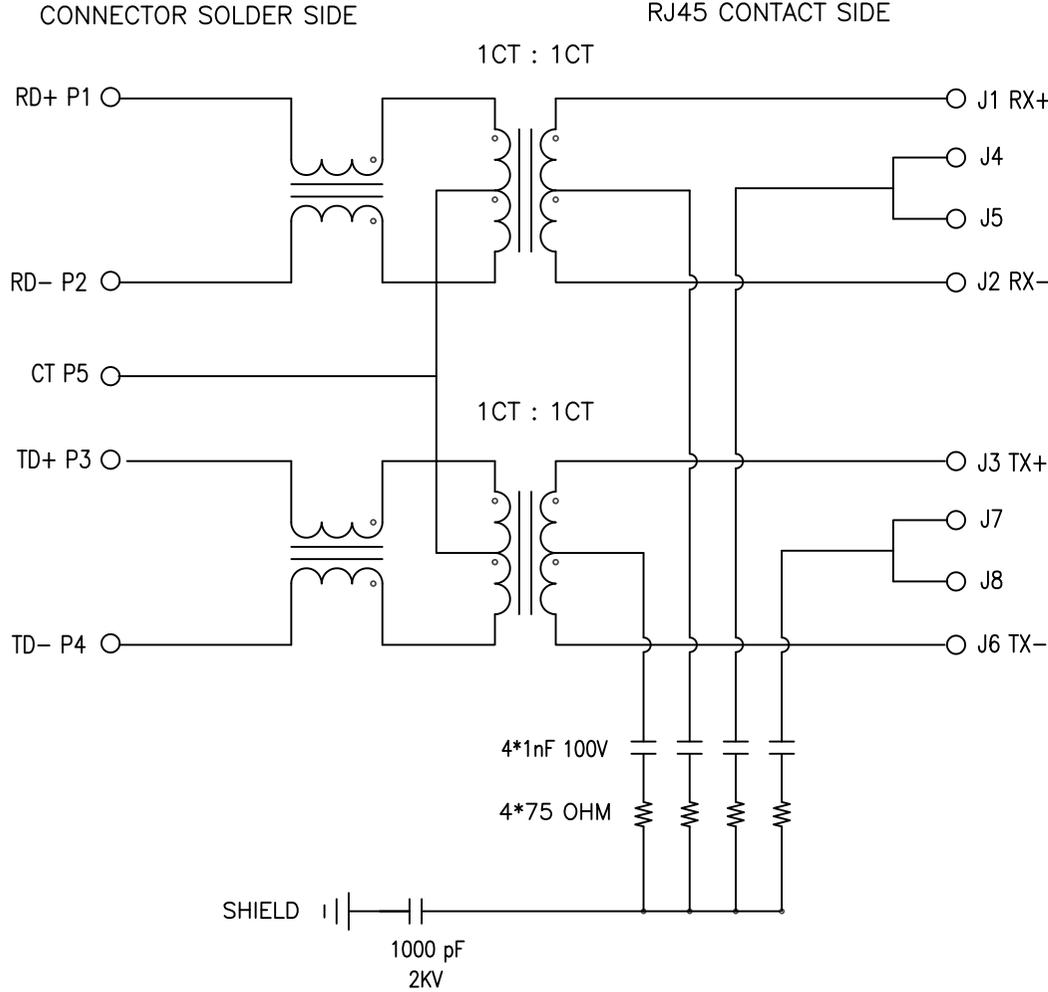


Matrix Electronics Co.,Ltd

TOLERANCE:		DESIGN BY :	DATE :	PART NAME:	
X:X	±0.38	Vince Chen	2023/12/20	RJ45 2X1 10/100	
X:XX	±0.25	CHECKED BY:	DATE :	PART NO.	MRJF-21T813RS
X:XXX	±0.13	Hanson Huang	2023/12/20	MOLD NO.	NA
ANGLE: ±3		APPROVED BY1:	DATE :	DRAW NO.	
		Richard Hsieh	2023/12/20	SHEET NO.	1 OF 2
		APPROVED BY2:	DATE :		
		Richard Hsieh	2023/12/20		

GP Component

2. SCHEMATIC :



REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
A0			Initial	2018/02/23	Phebe Su
A1			Change PBT to PA66	2018/04/03	Phebe Su
A2			Add LED PCB Layout Position	2022/03/29	Vince
A3			Modify Shield Exterior & Housing Material	2023/12/20	Vince

3. ELECTRICAL CHARACTERISTICS :

ELECTRICAL CHARACTERISTICS(25±5°C)

- TR:(100KHz,0.1V); 100%
PINS:(P1,P2):(J1,J2)=1:1±3%
PINS:(P3,P4):(J3,J6)=1:1±3%
- LX:(100KHz,100mV,8mA, DC Bias) 100%
PINS:(J1,J2)=350uH MINIMUM
PINS:(J3,J6)=350uH MINIMUM
- DCR: 100%
PINS:(P1,P2)=1.2 Ω MAXIMUM
PINS:(P3,P4)=1.2 Ω MAXIMUM
- HIPOT: 100%
PINS(P1,P2)TO(J1,J2)=1500VAC FOR 60 SECONDS
PINS(P3,P4)TO(J3,J6)=1500VAC FOR 60 SECONDS
- INSERTION LOSS:
-1.0dB MAXIMUM AT 1MHz TO 100MHz;
- RETURN LOSS:
-18dB MINIMUM AT 1MHz TO 30MHz;
-16dB MINIMUM AT 30MHz TO 60MHz
-12dB MINIMUM AT 60MHz TO 80MHz
- CROSS TALK:
-30dB MINIMUM AT 1MHz TO 100MHz
- COMMON TO COMMON MODE REJECTION:
-30dB MINIMUM AT 1MHz TO 100MHz



Matrix Electronics Co.,Ltd

TOLERANCE: X:X ±0.38 X:XX ±0.25 X:XXX ±0.13 ANGLE: ±3	DESIGN BY : Vince Chen	DATE : 2023/12/20	PART NAME: RJ45 2X1 10/100	
	CHECKED BY: Hanson Huang	DATE : 2023/12/20	PART NO.	MRJF-21T813RS
	APPROVED BY1: Richard Hsieh	DATE : 2023/12/20	MOLD NO.	NA
	APPROVED BY2: Richard Hsieh	DATE : 2023/12/20	DRAW NO.	
UNIT: mm [inch] SCALE:1:1 SIZE:A4			SHEET NO.	2 OF 2