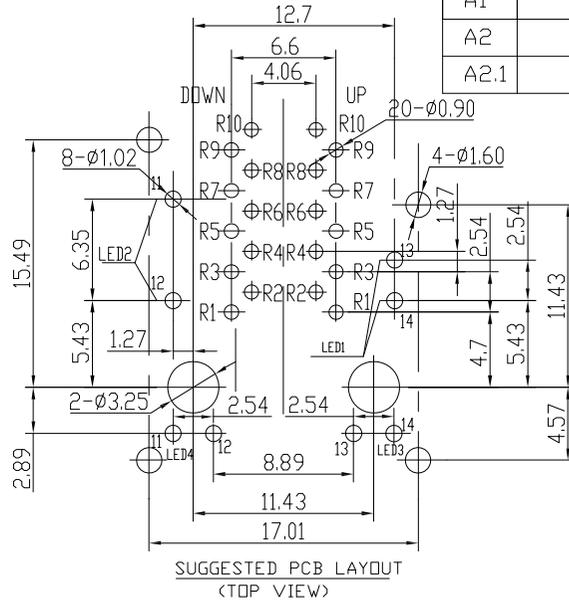
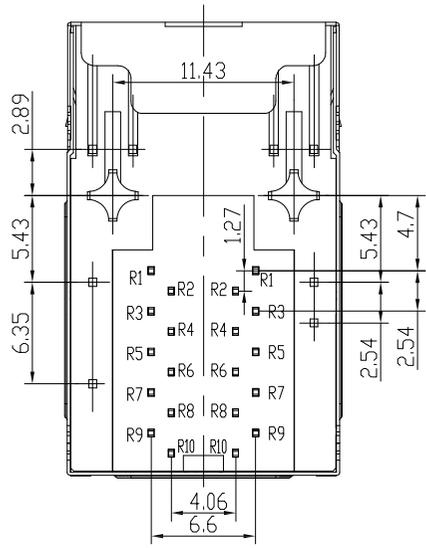


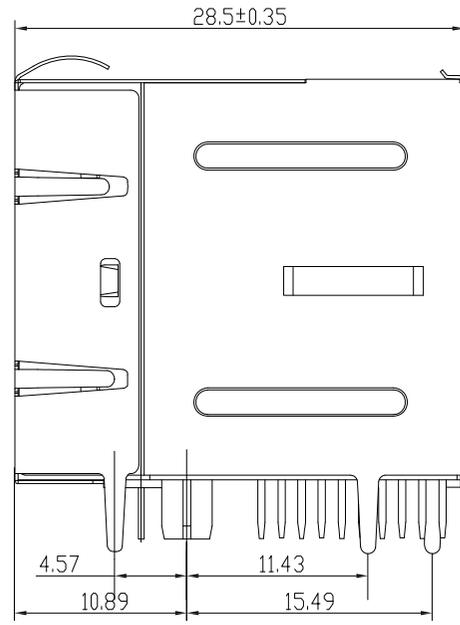
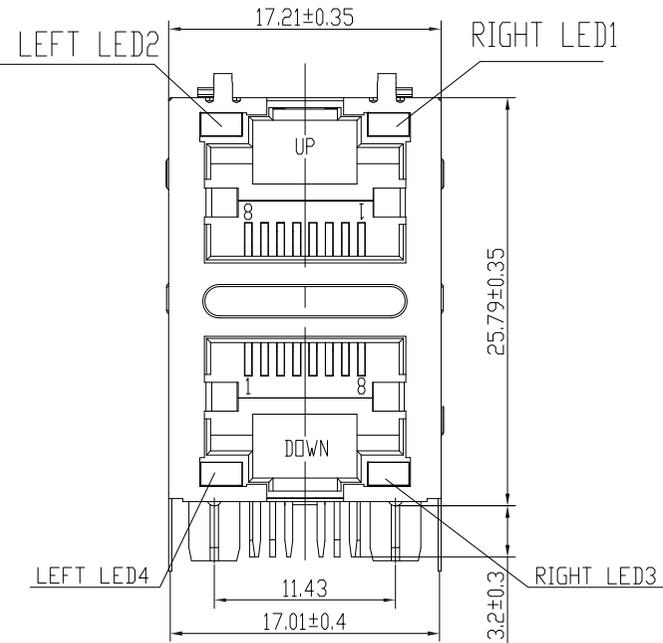
# GP Component

## 1. MECHANICAL DIMENSIONS :



噴印內容

MATRIX  
MRJF-21T789RS  
YYWW



REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
A0			Initial	2018/01/05	Phebe Su
A1			Change	2018/01/15	Phebe Su
A2			Change	2018/01/17	Phebe Su
A2.1			Modify Schematic Symbols	2023/08/09	Vince

### NOTES:

#### 1. MATERIALS:

HOUSING: PBT UL94V-0 BLACK  
CONTACTS: PHOSPHOR BORNZE, NICKEL UNDERPLATE ON ALL AREA, TIN ON TERMINATION END, GOLD 6u" ON CONTACT AREA.

SHIELD: BRASS C2680 WITH NICKEL PLATED

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

MATRIX PART NO :

M R J F - 2 1 T 7 8 9 R S

Matrix-RJ45

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

RS : ROHS  
HF : Halogen Free

Series Number

S : SMD  
T : THT

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

Matrix Electronics Co.,Ltd			
TOLERANCE: X:X ±0.38 X:XX ±0.25 X:XXX ±0.13 ANGLE: ±3	DESIGN BY : Vince Chen	DATE : 2023/08/09	PART NAME: RJ45_CONN,W/LED,10P,8C 10/100Mbps,FILTER,PDE
 UNIT: mm [inch] SCALE:1:1 SIZE:A4	CHECKED BY: Hanson Huang	DATE : 2023/08/09	PART NO. MRJF-21T789RS
	APPROVED BY1: Richard Hsieh	DATE : 2023/08/09	MOLD NO. NA
	APPROVED BY2: Richard Hsieh	DATE : 2023/08/09	DRAW NO.
			SHEET NO. 1 OF 2

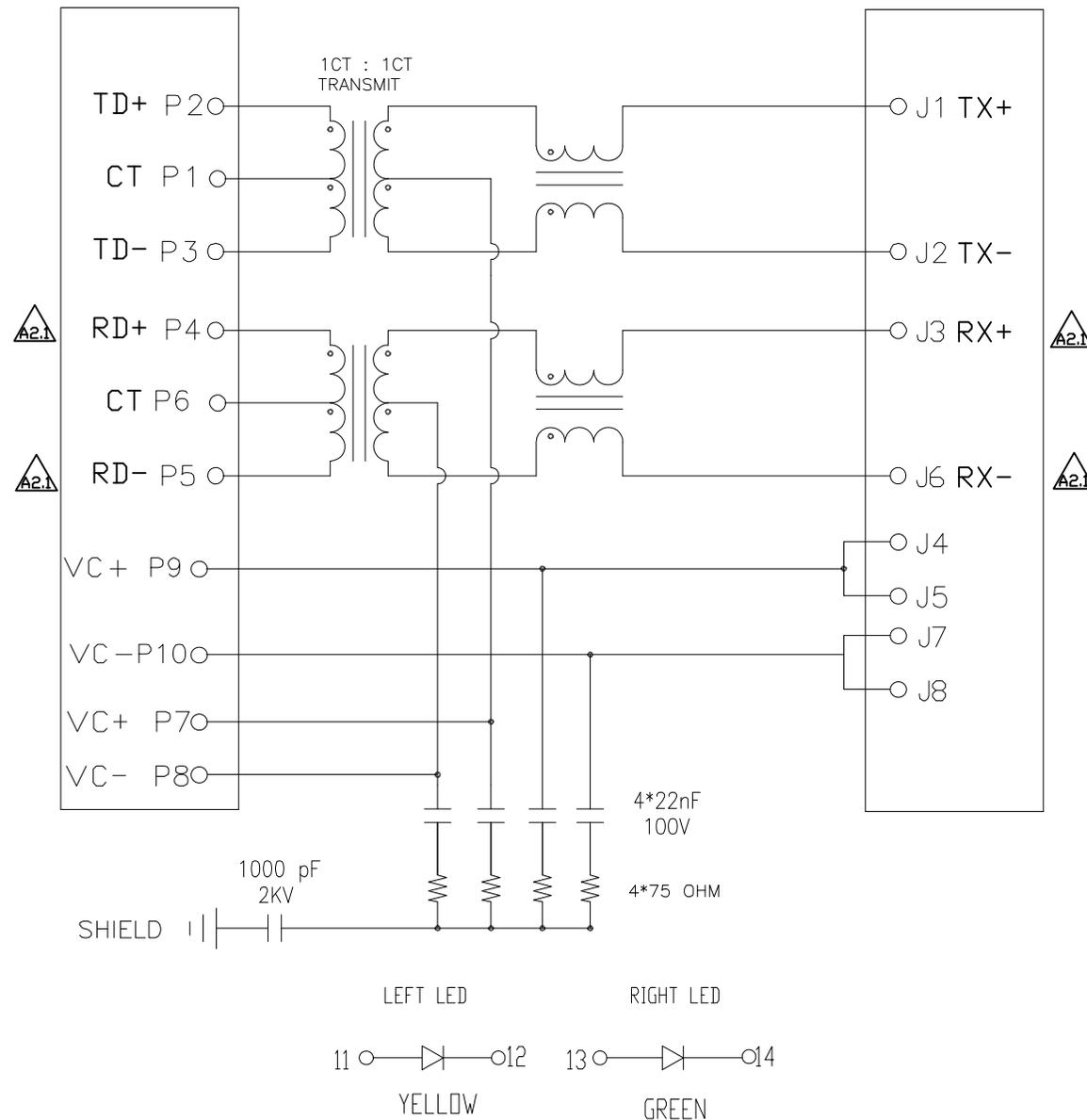
# GP Component

## 2. SCHEMATIC:

REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
A0			Initial	2018/01/05	Phebe Su
A1			Change	2018/01/15	Phebe Su
A2			Change	2018/01/17	Phebe Su
A2.1			Modify Schematic Symbols	2023/08/09	Vince

CONNECTOR SOLDER SIDE

RJ45 CONTACT SIDE



## 3. ELECTRICAL CHARACTERISTICS :

TEST NOTES:(25°±5°C)

- TR:(100KHz,0.1V); 100%  
PINS:(P2,P3):(J1,J2)=1:1±3%;(P4,P5):(J3,J6)=1:1±3%
- LX:(100KHz,100mV,8mA, DC Bias) 100%  
PINS:(P2,P3),(P4,P5)=350uH MINIMUM
- DCR: 100%  
PINS:(J1,J2),(J3,J6)=1.2 OHM MAXIMUM
- HIPOT: 100%  
PINS(P2,P3)TO(J1,J2),P4,P5)TO(J3,J6)=1200VAC/1mA
- INSERTION LOSS:  
-1.0dB MAXIMUM AT 1MHz TO 100MHz;
- RETURN LOSS:  
-18dB MINIMUM AT 1MHz TO 30MHz;  
-12dB MINIMUM AT 60MHz TO 80MHz  
-10dB MINIMUM AT 80MHz TO 100MHz
- CROSS TALK:  
-30dB MINIMUM AT 1MHz TO 100MHz
- COMMON TO COMMON MODE REJECTION:  
-30dB MINIMUM AT 1MHz TO 100MHz  
-20dB MINIMUM AT 150MHz
- PDE APPLICATIONS CURRENT CAPABILITY: 350MA



Matrix Electronics Co.,Ltd

TOLERANCE: X.X ±0.38 X.XX ±0.25 X.XXX ±0.13 ANGLE: ±3	DESIGN BY : Vince Chen	DATE : 2023/08/09	PART NAME: RJ45 CONN.W/LED,10P,8C 10/100Mbps,FILTER,PDE	
	CHECKED BY: Hanson Huang	DATE : 2023/08/09	PART NO.	MRJF-21T789RS
	APPROVED BY1: Richard Hsieh	DATE : 2023/08/09	MOLD NO.	NA
UNIT: mm [inch]	APPROVED BY2: Richard Hsieh	DATE : 2023/08/09	DRAW NO.	
SCALE:1:1	SIZE:A4		SHEET NO.	2 OF 2