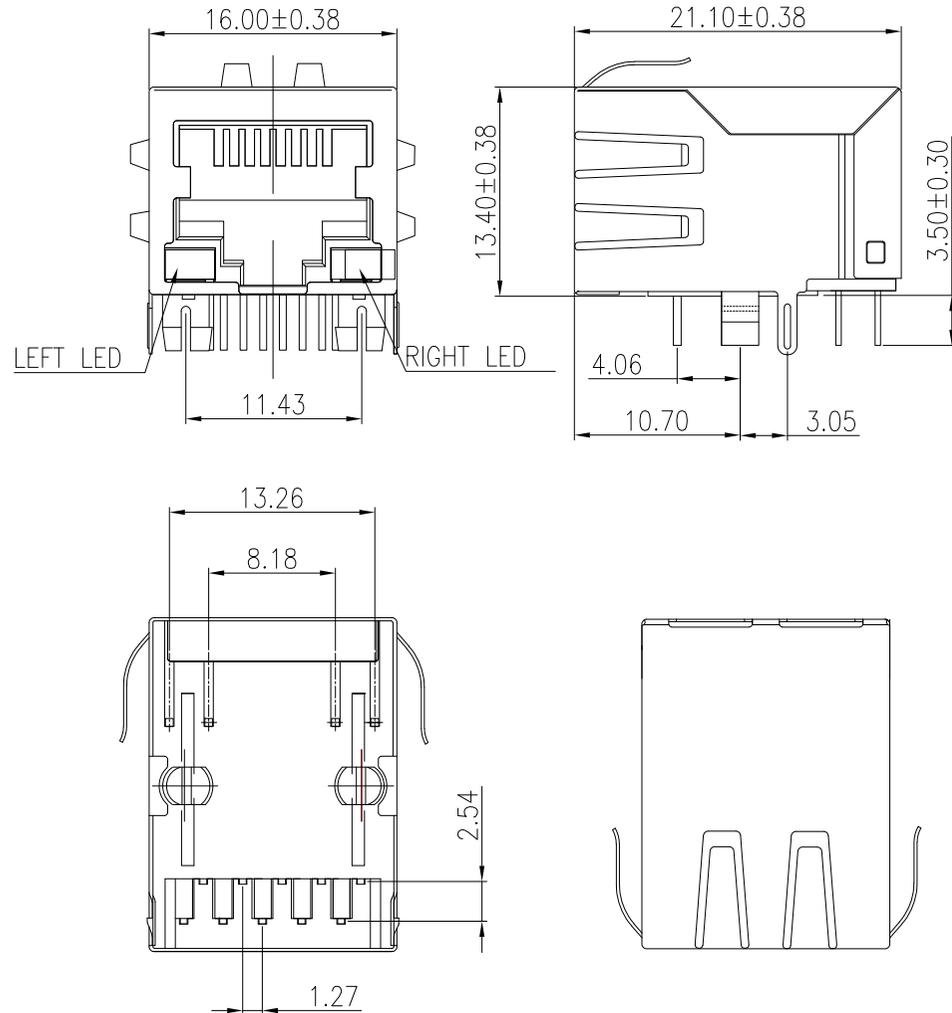
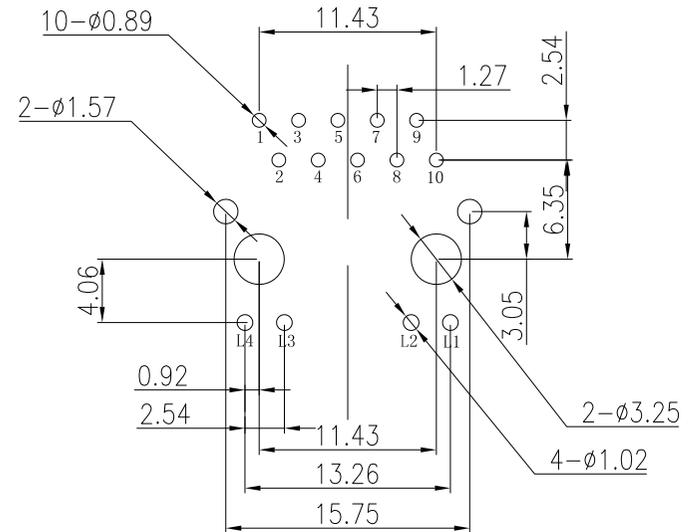


# GP Component

## 1. MECHANICAL:



REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
A0			Initial	2017/08/11	Phebe Su
A1			Change	2017/10/12	Phebe Su
A2			Change Dim.	2021/06/21	Hanson
A3			Change front view	2021/10/27	Vince



Suggested PCB Layout (Top View)  
(Tolerance:  $\pm 0.05$ )

### 1. Material:

- 1.1 Housing: PBT UL94V-0 Black.
- 1.2 Contact: Phosphor Bronze, Gold plated on contact area  $6\mu$ .
- 1.3 Input Terminal: Brass.
- 1.4 Metal shielding: Copper alloy with Nickel plated.

### 2. Environmental requirements:

- 2.1 Lead-free process, compliant RoHS.

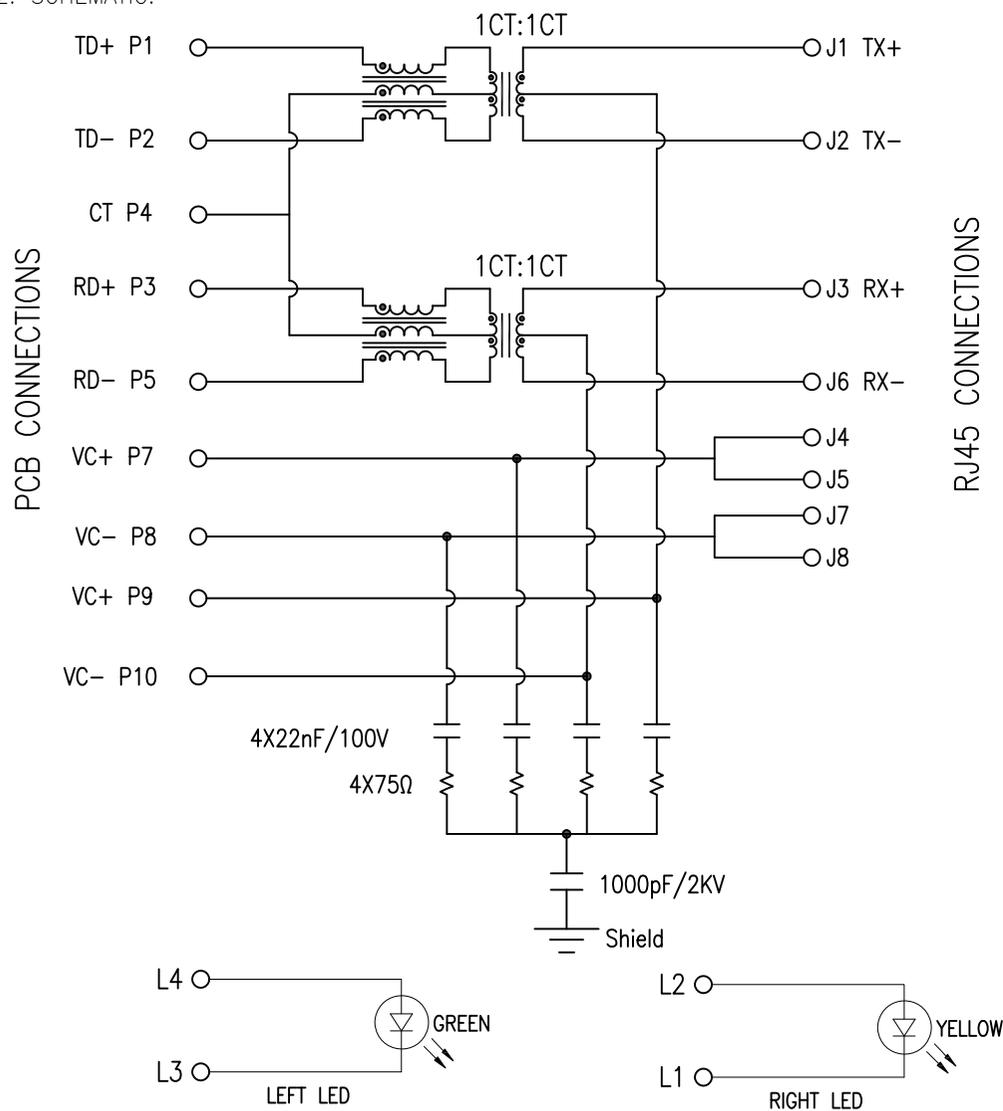


Matrix Electronics Co., Ltd

<b>TOLERANCE:</b> X.X: $\pm 0.38$ X.XX: $\pm 0.25$ X.XXX: $\pm 0.13$ ANGLE: $\pm 3^\circ$	<b>DESIGN BY:</b> Vince Chen	<b>DATE:</b> 2021/10/26	<b>PART NAME:</b> RJ45.CONN.W/ LED,10P8C HOLE10/100MBPS,FILTER,POE
	<b>CHECKED BY:</b> Hanson Huang	<b>DATE:</b> 2021/10/26	<b>PART NO.</b> MRJF-11T711RS
<b>UNIT:</b> mm [inch] <b>SCALE:</b> 1:1 <b>SIZE:</b> A4	<b>APPROVED BY1:</b> Richard Hsieh	<b>DATE:</b> 2021/10/26	<b>MOLD NO.</b> NA
	<b>APPROVED BY2:</b> Richard Hsieh	<b>DATE:</b> 2021/10/26	<b>DRAW NO.</b> <b>SHEET NO.</b> 1 OF 2

# GP Component

## 2. SCHEMATIC:



REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
A0			Initial	2017/08/11	Phebe Su
A1			Change	2017/10/12	Phebe Su
A2			Change Dim.	2021/06/21	Hanson
A3			Change front view	2021/10/27	Vince

## 3. Electrical Specification @25°C:

- 3.1 Inductance: 350uH Min With 8mA DC bias.
- 3.2 Insertion loss : 1-100MHZ -1dB max.
- 3.3 Return loss :
  - 1-30MHZ -18dB min.
  - 30-60MHZ -16dB min.
  - 60-80MHZ -12dB min.
  - 80-100MHZ -10dB min.
- 3.4 Common Mode Rejection:1-100MHZ -30dB min.
- 3.5 Cross Talk:1-100MHZ -30dB min.
- 3.6 DC current:350mA MAX @57VDC continuous.

## 4. Operating and Storage Temperature:

- 4.1 Operating Temperature : 0°C to +70°C.
- 4.2 Storage Temperature : -40°C to +85°C.

## 5. Wave soldering peak temperature:260°C.

## ORDER INFORMATION :

**M R J F - 1 1 T 711 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

Emitting Color	$\lambda_p$ (nm)	Vf@If=20mA
Green	565	1.8-2.5V
YELLOW	585	1.8-2.5V

### Matrix Electronics Co.,Ltd

TOLERANCE: X.X ±0.38 X.XX ±0.25 X.XXX ±0.13 ANGLE: ±3°	DESIGN BY : Vince Chen	DATE : 2021/06/21	PART NAME: RJ45.CONN.W/ LED.10P8C HOLE10/100MBPS.FILTER.POE
	CHECKED BY: Hanson Huang	DATE : 2021/06/21	PART NO. MRJF-11T711RS
	APPROVED BY1: Richard Hsieh	DATE : 2021/06/21	MOLD NO. NA
	APPROVED BY2: Richard Hsieh	DATE : 2021/06/21	DRAW NO.
UNIT: mm [inch] SCALE:1:1 SIZE:A4			SHEET NO. 2 OF 2