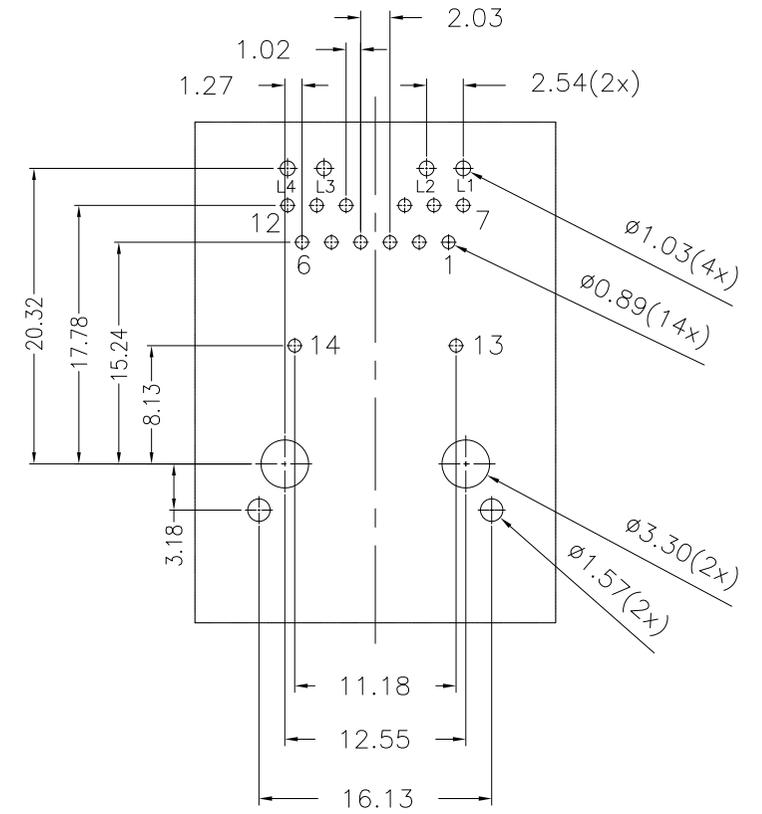
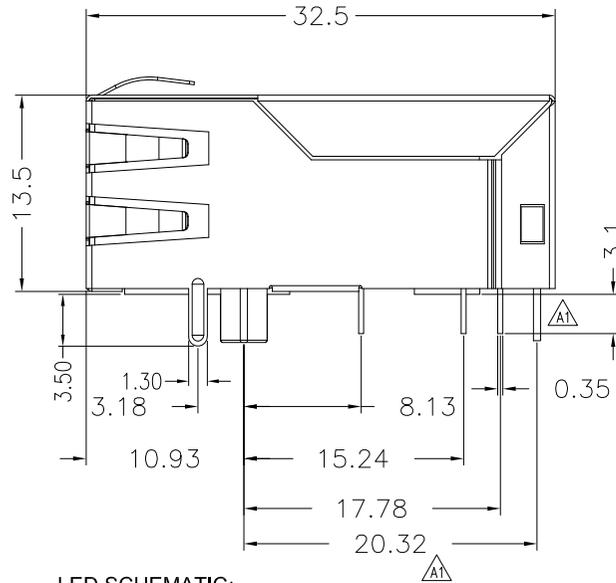
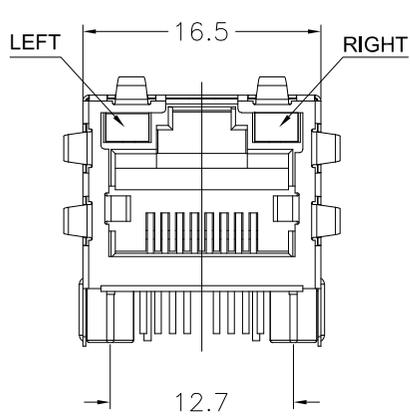


# GP Component

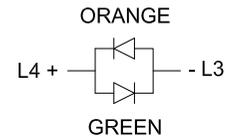
REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
AO			Initial	2021/07/13	Vince
A1			Add Led Pin	2022/11/30	Vince

## 1. MECHANICAL DIMENSIONS :

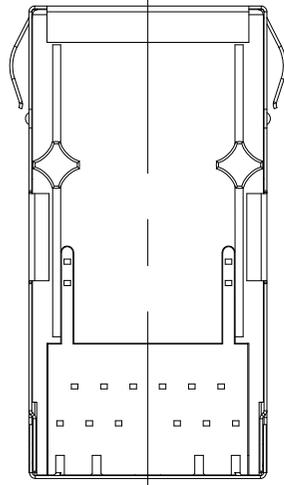
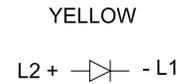


### LED SCHEMATIC:

#### LEFT LED:



#### RIGHT LED:



### MATRIX PART NO:

MRJG-11T1413RS

Matrix-RJ45  
F: 10/100  
G: 10/100/1000  
N: Pure Connector

RS: ROHS  
HF: Halogen Free

Series Number

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

### Recommended PCB Layout Component Side View

Emitting Color	$\lambda_p(\text{nm})$	$V_f@I_f=20\text{mA}$
GREEN	565	1.8-2.5V
YELLOW	585	1.8-2.5V
ORANGE	610	1.8-2.5V



Matrix Electronics Co.,Ltd

<b>TOLERANCE:</b> X.X ±0.38 X.XX ±0.25 X.XXX ±0.13 ANGLE: ±1°	DESIGN BY : Vince Chen	DATE : 2022/11/30	PART NAME: RJ45,CONNECTORS,W/LED, 10/100/1000,FILTER	
	CHECKED BY: Hanson Huang	DATE : 2022/11/30	PART NO.	MRJG-11T1413RS
  UNIT: mm [inch]	APPROVED BY1: Richard Hsieh	DATE : 2022/11/30	MOLD NO.	NA
	APPROVED BY2: Richard Hsieh	DATE : 2022/11/30	DRAW NO.	
SCALE:1:1	SIZE:A4		SHEET NO.	1 OF 3

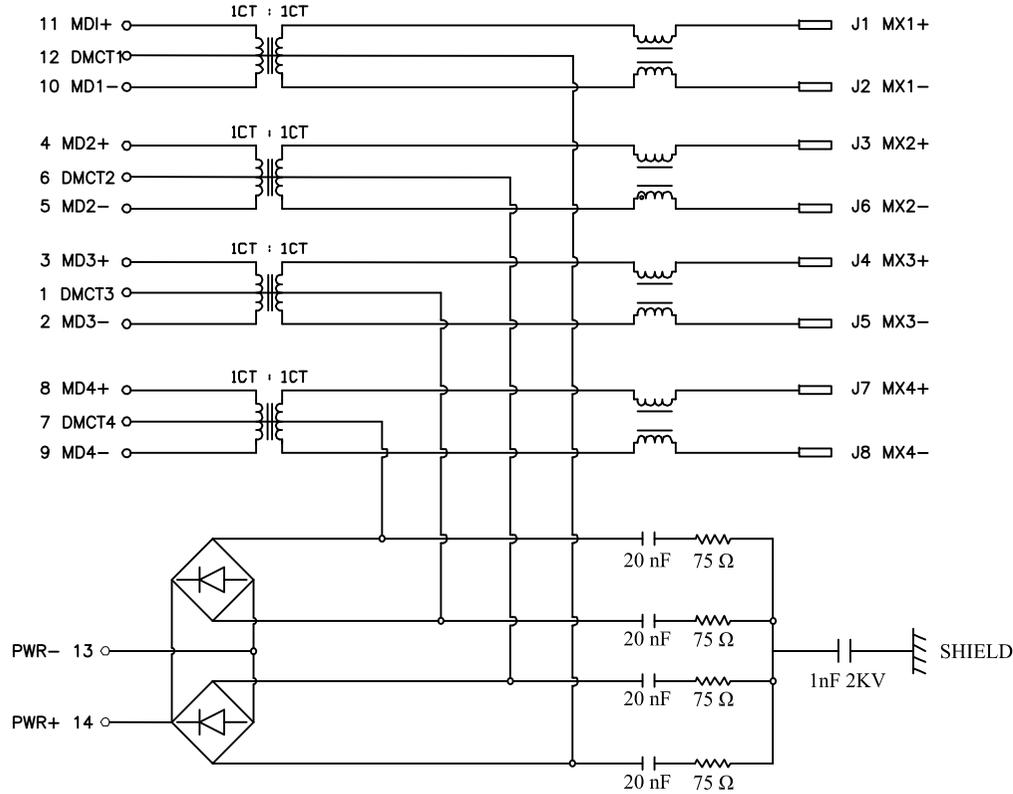
# GP Component

REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
AO			Initial	2021/07/13	Vince
A1			Add Led Pin	2022/11/30	Vince

## 3. SCHEMATIC:

Schematics

RJ45



### 1. Material:

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

### 2.Environmental requirements:

- 2.1 Lead-free process,compliant RoHS.

### 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.

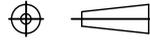
### 4.Operating and Storage Temperature:

- 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.

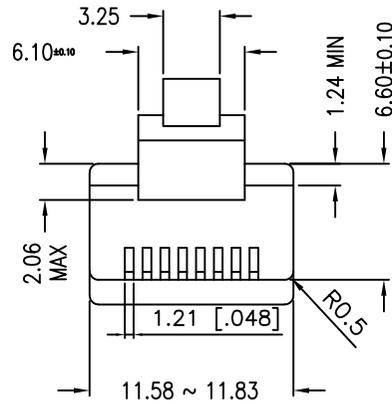


Matrix Electronics Co.,Ltd

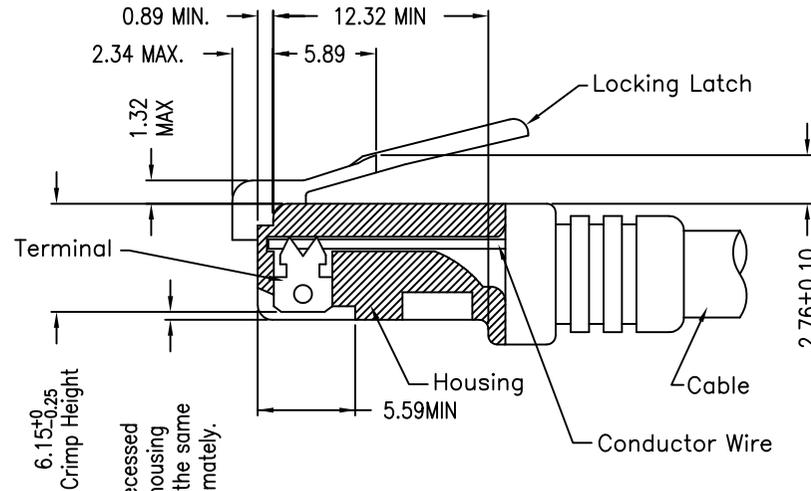
<b>TOLERANCE:</b> X.X ±0.38 X.XX ±0.25 X.XXX ±0.13 ANGLE: ±1°	DESIGN BY :	DATE :	PART NAME:	
	Vince Chen	2022/11/30	RJ45,CONNECTORS,W/LED, 10/100/1000,FILTER	
 UNIT: mm [inch]	CHECKED BY:	DATE :	PART NO.	MRJG-11T1413RS
	Hanson Huang	2022/11/30	MOLD NO.	NA
SCALE:1:1 SIZE:A4	APPROVED BY1:	DATE :	DRAW NO.	
	Richard Hsieh	2022/11/30	SHEET NO.	2 OF 3
	APPROVED BY2:	DATE :		
	Richard Hsieh	2022/11/30		

# GP Component

REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
AO			Initial	2021/07/13	Vince
A1			Add Led Pin	2022/11/30	Vince



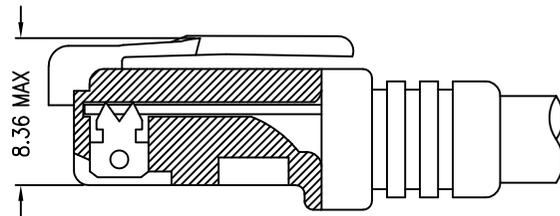
\* There must be no damage to housing or locking latch. There must be no nicks or cuts in cable.  
 \* Durability : 750 cycles generally



All contacts recessed below top of housing and must be at the same height approximately.

FOLLOW SPECIFICATION : FCC, PART 68, SUBPART F FIGURE 68.500 (C)(2)(i) AND IEC 603-7 FIGURE 23 & 24

## STANDARD MODULAR PLUG ASSEMBLY



FOLLOW SPECIFICATION : FCC, PART 68, SUBPART F FIGURE 68.500 (C)(2)(ii)



Matrix Electronics Co.,Ltd

TOLERANCE: X.X ±0.38 X.XX ±0.25 X.XXX ±0.13 ANGLE: ±1°	DESIGN BY :	DATE :	PART NAME:	
	Vince Chen	2022/11/30	RJ45,CONNECTORS.W/LED, 10/100/1000,FILTER	
 UNIT: mm [inch] SCALE:1:1 SIZE:A4	CHECKED BY:	DATE :	PART NO.	MRJG-11T1413RS
	Hanson Huang	2022/11/30	MOLD NO.	NA
	APPROVED BY1:	DATE :	DRAW NO.	
	Richard Hsieh	2022/11/30	SHEET NO.	3 OF 3
	APPROVED BY2:	DATE :		
	Richard Hsieh	2022/11/30		