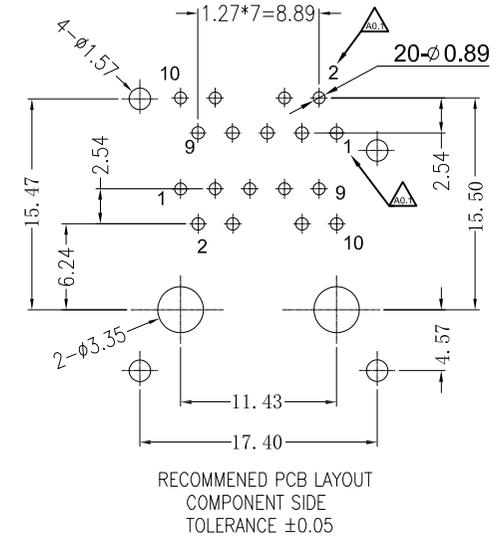
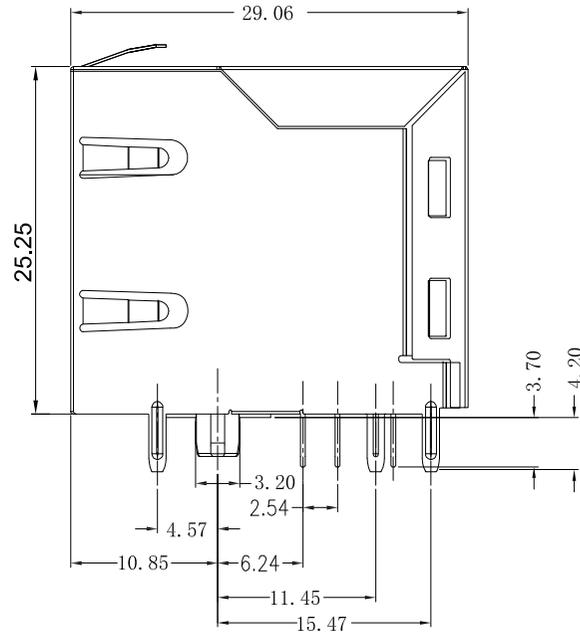
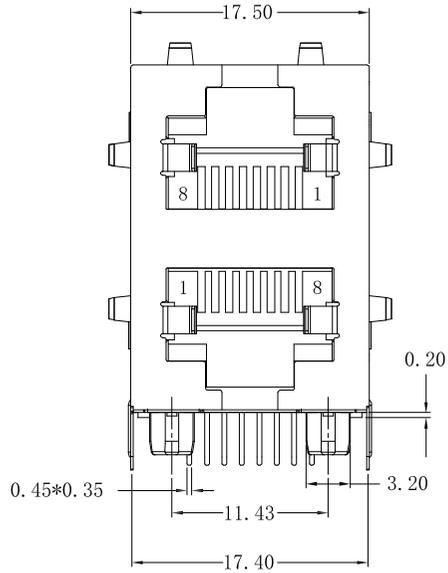


# GP Component

REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
A0			Initial	2022/02/15	Vince
A0.1			Modify Pcba Layout Text	2023/02/17	Vince

## 1. Mechanical:



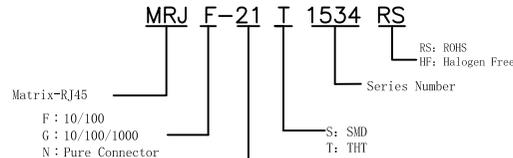
### 1. Material:

- 1.1 Housing: PBT UL94V-0 Black.
- 1.2 Insert core: PBT UL94V-0 Black.
- 1.2 Contact : Phosphor Bronze, Gold plated on contact area 6u", Tin plated on solder area, Ni underplated overall.
- 1.3 Input Terminal : Brass, Tin plated on solder area, Ni underplated overall.
- 1.4 Metal shielding: Copper alloy with Nickel plated.

### 2. Environmental requirements:

- 2.1 Lead-free process, compliant RoHS.

### MATRIX PART NO:



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

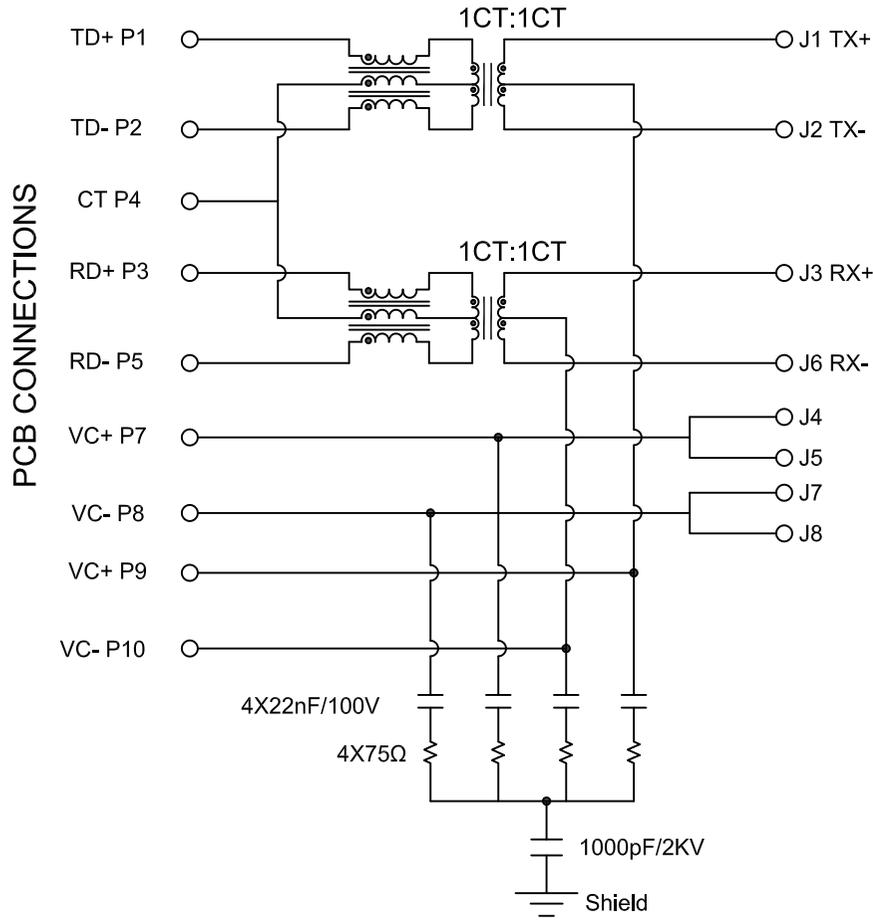


Matrix Electronics Co., Ltd

<b>TOLERANCE:</b> X.X X.XX ±0.38 X.XXX ±0.25 X.XXX ±0.13 X.°±1.5° X.X°±1.5°	<b>DESIGN BY :</b> Vince Chen	<b>DATE :</b> 2023/02/17	<b>PART NAME:</b> RJ45 2X1 CONN, W/O LED 10/100, FILTER	
	<b>CHECKED BY:</b> Hanson Huang	<b>DATE :</b> 2023/02/17	<b>PART NO.</b>	MRJF-21T1534RS
 <b>UNIT: mm [inch]</b> <b>SCALE: 1:1 SIZE: A4</b>	<b>APPROVED BY1:</b> Richard Hsieh	<b>DATE :</b> 2023/02/17	<b>MOLD NO.</b>	NA
	<b>APPROVED BY2:</b> Richard Hsieh	<b>DATE :</b> 2023/02/17	<b>DRAW NO.</b>	<b>SHEET NO.</b>
				1 OF 3

REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
A0			Initial	2022/02/15	Vince
A0.1			Modify Pcba Layout Text	2023/02/17	Vince

2. SCHEMATIC:



RJ45 CONNECTIONS

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:720mA 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.

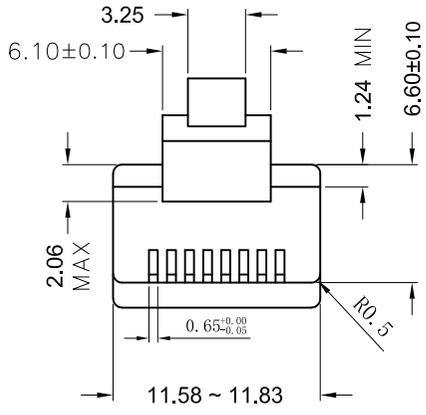


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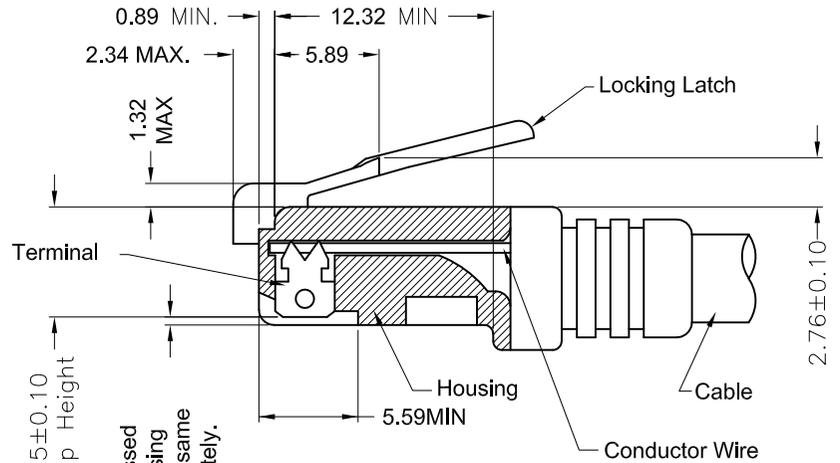
<b>TOLERANCE:</b> X.X ±0.38 X.XX ±0.25 X.XXX ±0.13 X.°±1.5° X.X° ±1.5°	<b>DESIGN BY :</b> Vince Chen	<b>DATE :</b> 2023/02/17	<b>PART NAME:</b> RJ45 2X1 CONN, W/O LED 10/100, FILTER	
	<b>CHECKED BY:</b> Hanson Huang	<b>DATE :</b> 2023/02/17	<b>PART NO.</b>	MRJF-21T1534RS
	<b>APPROVED BY1:</b> Richard Hsieh	<b>DATE :</b> 2023/02/17	<b>MOLD NO.</b>	NA
	<b>UNIT: mm [inch]</b>	<b>APPROVED BY2:</b> Richard Hsieh	<b>DATE :</b> 2023/02/17	<b>DRAW NO.</b>
<b>SCALE:1:1</b>	<b>SIZE:A4</b>		<b>SHEET NO.</b>	2 OF 3

# GP Component

REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
A0			Initial	2022/02/15	Vince
A0.1			Modify Pcba Layout Text	2023/02/17	Vince

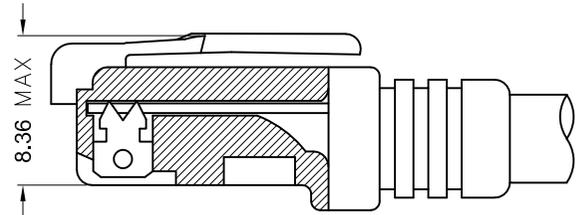


\* There must be no damage to housing or locking latch. There must be no nicks or cuts in cable.  
 \* Durability : 750 cycles generally



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



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

## STANDARD MODULAR PLUG ASSEMBLY



Matrix Electronics Co., Ltd

<b>TOLERANCE:</b> X.X ±0.38 X.XX ±0.25 X.XXX ±0.13 X.°±1.5° X.X° ±1.5°	<b>DESIGN BY :</b> Vince Chen	<b>DATE :</b> 2023/02/17	<b>PART NAME:</b> RJ45 2X1 CONN, W/O LED 10/100, FILTER	
	<b>CHECKED BY:</b> Hanson Huang	<b>DATE :</b> 2023/02/17	<b>PART NO.</b> MRJF-21T1534RS	
 UNIT: mm [inch]	<b>APPROVED BY1:</b> Richard Hsieh	<b>DATE :</b> 2023/02/17	<b>MOLD NO.</b> NA	
	<b>APPROVED BY2:</b> Richard Hsieh	<b>DATE :</b> 2023/02/17	<b>DRAW NO.</b> SHEET NO.	3 OF 3
<b>SCALE:1:1</b>	<b>SIZE:A4</b>			