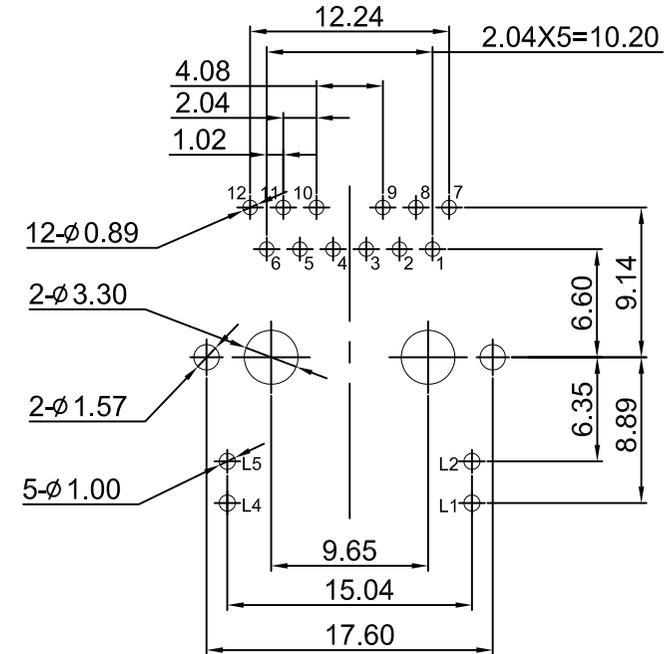
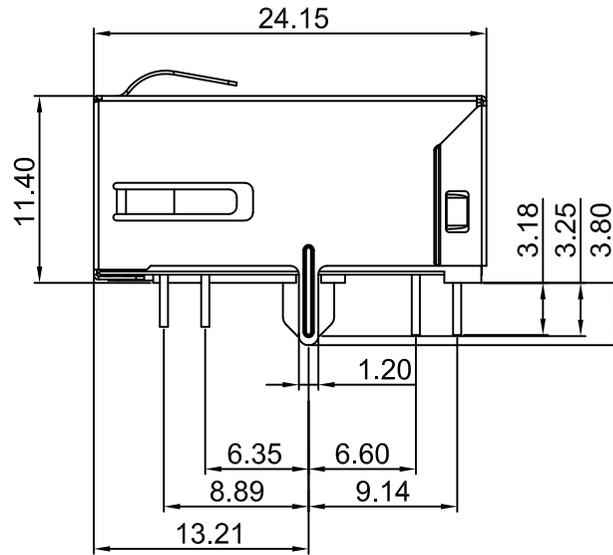
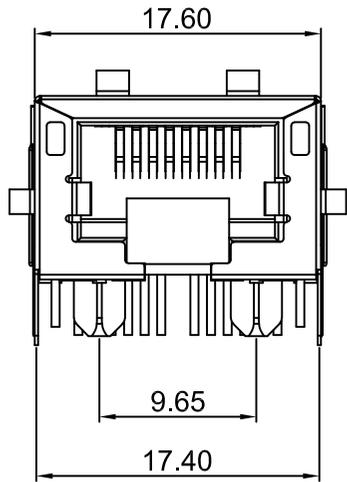


GP Component

REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
A0			Initial	2022/02/07	Vince
A1			Modify Schematic	2023/02/14	Vince

1. MECHANICAL DIMENSIONS:

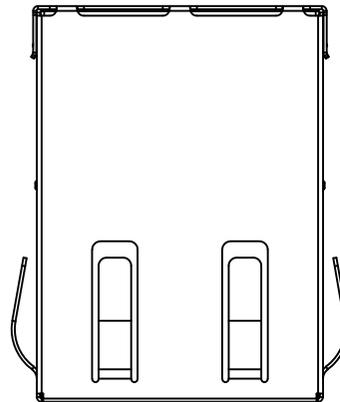
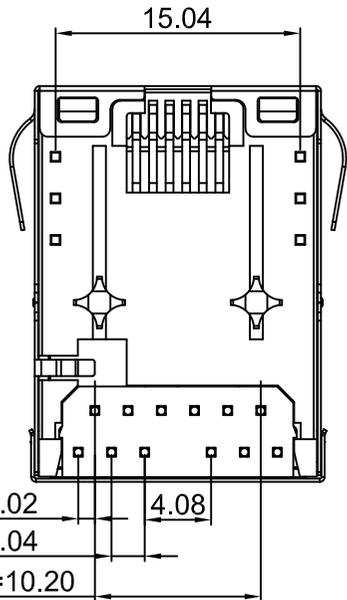


Suggested PCB Layout(Top View)
(Tolerance:±0.05)

Suggested PCB Layout(Top View)
(Tolerance:±0.05)

1.Material:

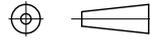
- 1.1 Housing: LCP UL94V-0 Black.
- 1.2 Contact :Phosphor Bronze,Gold plated on contact area 6u".
- 1.3 Input Terminal : Brass.
- 1.4 Metal shielding:Copper alloy with Nickel plated.
- 2.Environmental requirements:
- 2.1 Lead-free process,compliant RoHS.



Printing:
MATRIX
MRJG-11T1531TRS
YYWW



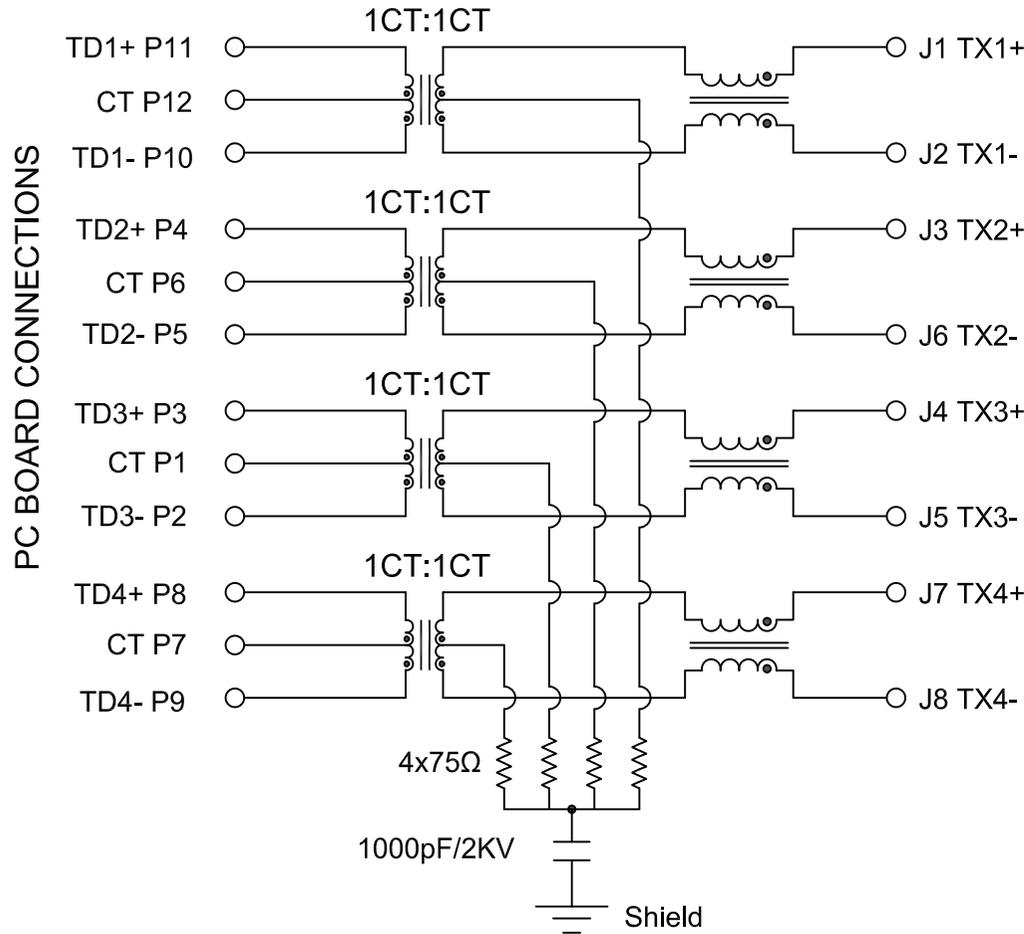
Matrix Electronics Co., Ltd

TOLERANCE: X.X ±0.38 X.XX ±0.25 X.XXX ±0.13 ANGLE: ±3°	DESIGN BY : Vince Chen	DATE : 2023/02/14	PART NAME: RJ45, 1X1 CONNECTORS, W/LED, SHELL 1000MBPS, FILTER	
	CHECKED BY: Hanson Huang	DATE : 2023/02/14	PART NO.	MRJG-11T1531TRS
 UNIT: mm [inch]	APPROVED BY1: Richard Hsieh	DATE : 2023/02/14	MOLD NO.	NA
	SCALE:1:1 SIZE:A4	APPROVED BY2: Richard Hsieh	DATE : 2023/02/14	DRAW NO.
				1 OF 3

GP Component

REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
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A1			Modify Schematic	2023/02/14	Vince

3. SCHEMATIC:



4. ELECTRICAL CHARACTERISTICS @25°C:

- 4.1 Inductance: 350uH Min With 8mA DC bias.
- 4.2 Hi-Pot Test: Input to Output 2250VDC/1mA.
- 4.3 Insertion loss : 1-100MHZ -1dB max.
- 4.4 Return loss : 1-30MHZ -18dB min.
30-60MHZ -16dB min.
60-80MHZ -12dB min.
80-100MHZ -10dB min.
- 4.5 Common Mode Rejection:1-100MHZ -30dB min.
- 4.6 Cross Talk:1-100MHZ -30dB min.
- 5. Operating and Storage Temperature:
 - 5.1 Operating Temperature : -40°C to +70°C.
 - 5.2 Storage Temperature : -40°C to +85°C.
- 6. Wave soldering peak temperature:260°C.

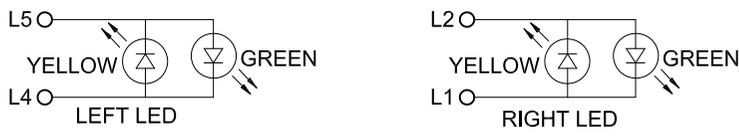
RJ45 CONNECTIONS

PC BOARD CONNECTIONS

MATRIX PART NO:

MRJG-11T1531TRS

Matrix-RJ45
 F: 10/100
 G: 10/100/1000
 N: Pure Connector
 11:1X1 : 21:2X1
 12:1X2 : 22:2X2
 14:1X4 : 24:2X4
 X:XXX ±0.13
 16:1X6 : 26:2X6
 18:1X8 : 28:2X8
 IU:RJ+USB
 RS: ROHS
 HF: Halogen Free
 Industrial temperature
 Series Number
 S: SMD
 T: THT



Emitting Color	λ p(nm)	Vf@If=20mA
GREEN	565	1.8-2.5V
YELLOW	585	1.8-2.5V

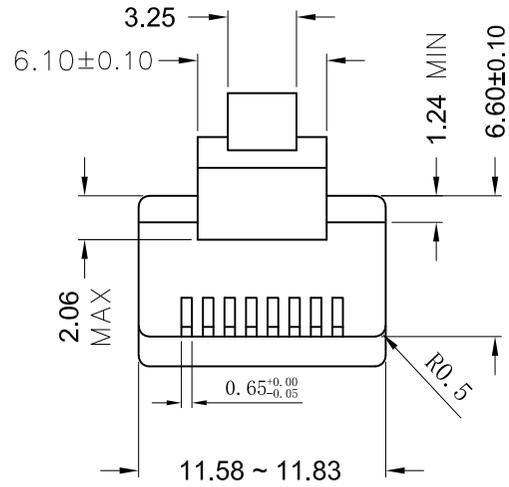


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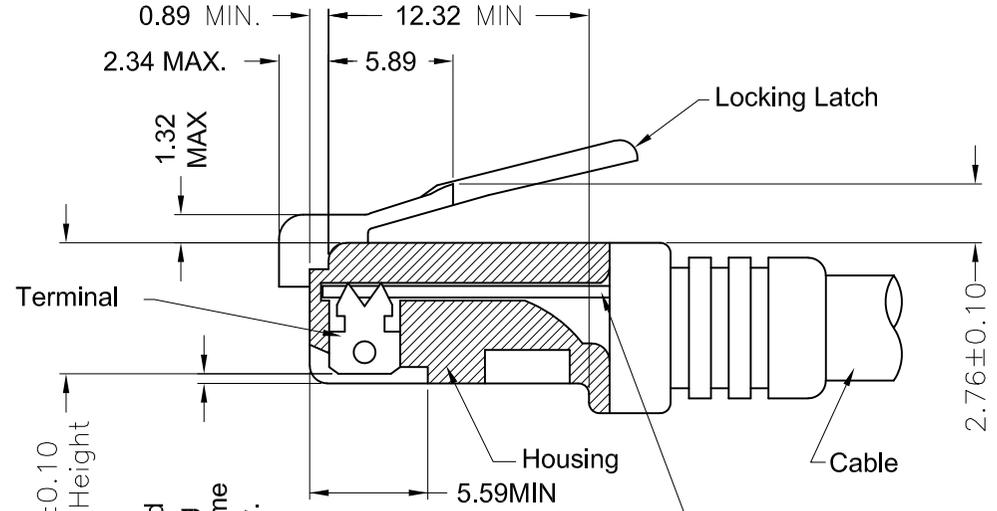
TOLERANCE: X.X ±0.38 X.XX ±0.25 X.XXX ±0.13 ANGLE: ±3°	DESIGN BY : Vince Chen	DATE : 2023/02/14	PART NAME: RJ45, 1X1 CONNECTORS, W/LED, SHELL 1000MBPS, FILTER	
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	APPROVED BY1: Richard Hsieh	DATE : 2023/02/14	MOLD NO.	NA
	UNIT: mm [inch]	APPROVED BY2: Richard Hsieh	DATE : 2023/02/14	DRAW NO.
SCALE:1:1	SIZE:A4	SHEET NO.	2 OF 3	

GP Component

REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
A0			Initial	2022/02/07	Vince
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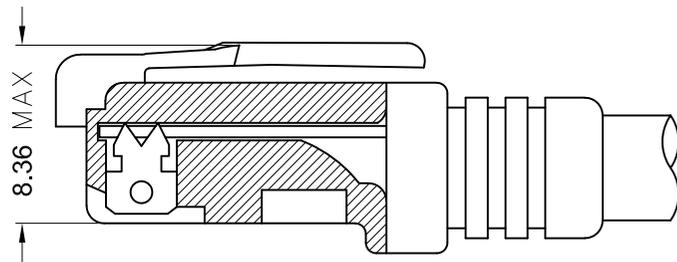


- * There must be no damage to housing or locking latch. There must be no nicks or cuts in cable.
- * Durability : 750 cycles generally



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

TOLERANCE: X.X ±0.38 X.XX ±0.25 X.XXX ±0.13 ANGLE: ±3°	DESIGN BY : Vince Chen	DATE : 2023/02/14	PART NAME: RJ45, 1X1 CONNECTORS, W/LED, SHELL 1000Mbps, FILTER	
	CHECKED BY: Hanson Huang	DATE : 2023/02/14	PART NO.	MRJG-11T1531TRS
 UNIT: mm [inch]	APPROVED BY1: Richard Hsieh	DATE : 2023/02/14	MOLD NO.	NA
	SCALE:1:1 SIZE:A4	APPROVED BY2: Richard Hsieh	DATE : 2023/02/14	DRAW NO. SHEET NO.