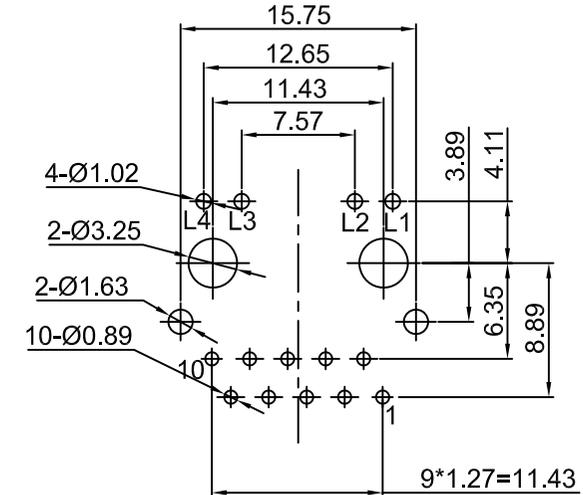
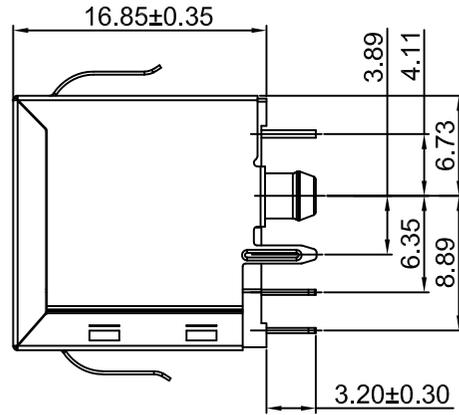
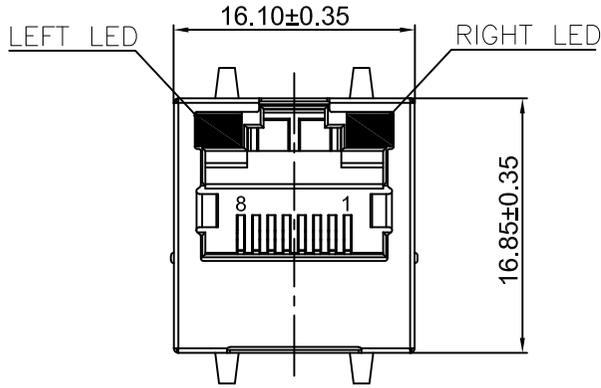


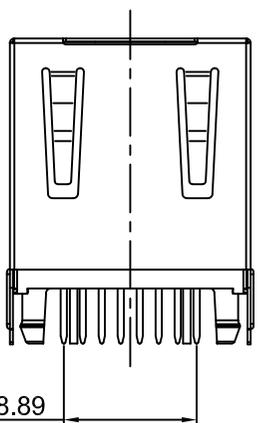
GP Component

REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
A0			Initial	2022/08/16	Vince
A0.1			Modify Gold plated	2024/01/08	Vince

1. MECHANICAL DIMENSIONS :



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



MATRIX PART NO:

MRJF - 11T 1666 RS

Matrix-RJ45 RS: ROHS
HF: Halogen Free

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

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

- 1.Material:
- 1.1 Housing: PBT UL94V-0 Black.
 - 1.2 Insert core:PBT UL94V-0 Black.
 - △ 1.3 Contact :Phosphor Bronze,Gold plated on contact area 30u",Tin plated on solder area 80u" min, overall nickel plating 30u" min.
 - 1.4 Input Terminal : Brass,Tin plated on solder area 80u" min, Ni underplated overall 30u" min.
 - 1.5 Metal shielding:Copper alloy with Nickel plated.
- 2.Environmental requirements:
- 2.1 Lead-free process,compliant RoHS.

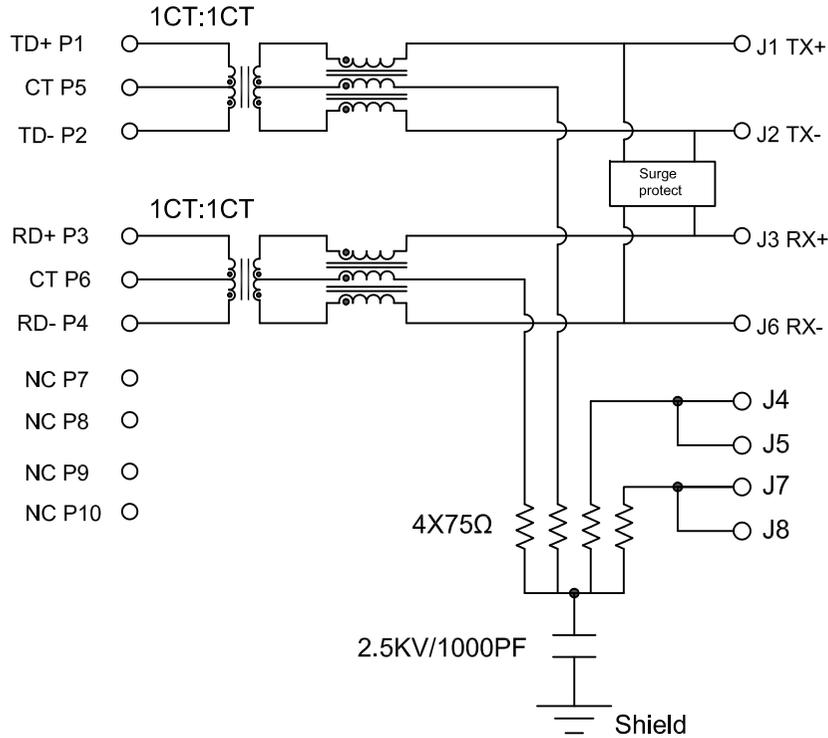
Matrix Electronics Co., Ltd

TOLERANCE: X: X X.X ±0.38 X.XX ±0.25 X.XXX ±0.13 ANGLE: ±3°	DESIGN BY :	DATE :	PART NAME:	
	Vince Chen	2024/01/08	RJ45, CONNECTORS, W/LED DIP VERTICAL SC, 10P, 100Mbps, FILTER	
 UNIT: mm [inch] SCALE:1:1 SIZE:A4	CHECKED BY:	DATE :	PART NO.	MRJF-11T1666RS
	Hanson Huang	2024/01/08	MOLD NO.	NA
	APPROVED BY1:	DATE :	DRAW NO.	
Richard Hsieh	2024/01/08	SHEET NO.	1 OF 3	
APPROVED BY2:	DATE :			
Richard Hsieh	2024/01/08			

GP Component

REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
A0			Initial	2022/08/16	Vince
A0.1			Modify Gold plated	2024/01/08	Vince

2. SCHEMATIC:



RJ45 CONNECTIONS

3. ELECTRICAL CHARACTERISTICS(25±5°C) :

- 3.1 Inductance: 350uH Min With 8mA DC bias.
- 3.2 Hi-Pot Test: Input to Output 2250VDC/1mA.
- 3.3 Insertion loss : 1-100MHZ -1dB max.
- 3.4 Return loss : 1-30MHZ -18dB min.
30-60MHZ -16dB min.
60-80MHZ -12dB min.
80-100MHZ -10dB min.
- 3.5 Common Mode Rejection:1-100MHZ -30dB min.
- 3.6 Cross Talk:1-100MHZ -30dB min.
- 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.
- 6. Surge protection:IEC61000-4-5(Lightning)
(10/700us)Line to Ground:4KV Line to LINE:3KV
- 7. ESD Protection
IEC61000-4-2 (ESD) 15KV (air),8KV (contact)

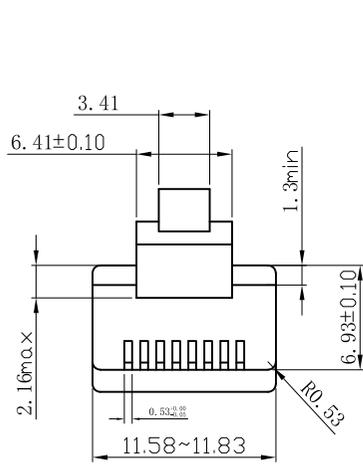


Emitting Color	λ_p (nm)	$V_f@I_f=20mA$
GREEN	565	1.8-2.5V
YELLOW	585	1.8-2.5V
ORANGE	610	1.8-2.5V

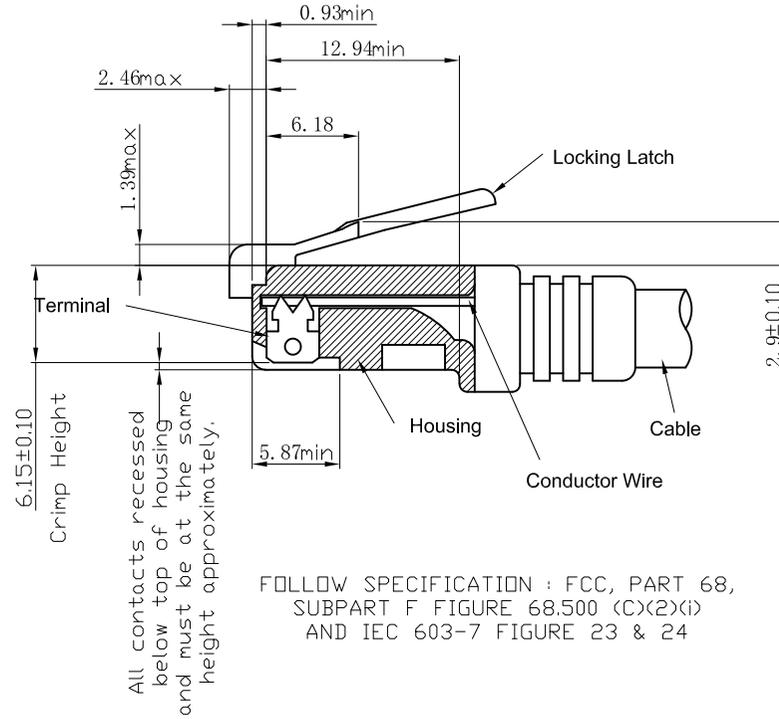
Matrix Electronics Co., Ltd				
TOLERANCE: X:X ±0.38 X.XX ±0.25 X.XXX ±0.13 ANGLE: ±3°	DESIGN BY :	DATE :	PART NAME:	
	Vince Chen	2024/01/08	RJ45, CONNECTORS, W/LED DIP VERTICAL SC, 10P, 100Mbps, FILTER	
UNIT: mm [inch] SCALE:1:1 SIZE:A4	CHECKED BY:	DATE :	PART NO.	MRJF-11T1666RS
	Hanson Huang	2024/01/08	MOLD NO.	NA
	APPROVED BY1:	DATE :	DRAW NO.	
	Richard Hsieh	2024/01/08	SHEET NO.	2 OF 3
	APPROVED BY2:	DATE :		
	Richard Hsieh	2024/01/08		

GP Component

REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
A0			Initial	2022/08/16	Vince
A0.1			Modify Gold plated	2024/01/08	Vince



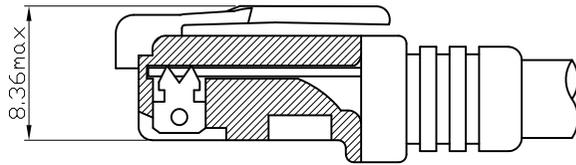
- * There must be no damage to housing or locking latch. There must be no nicks or cuts in cable.
- * Durability : 750 cycles generally



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.X X.XX ±0.38 X.XXX ±0.25 X.XXXX ±0.13 ANGLE: ±3°	DESIGN BY : Vince Chen	DATE : 2024/01/08	PART NAME: RJ45, CONNECTORS, W/LED DIP VERTICAL SC, 10P 100Mbps, FILTER	
	CHECKED BY: Hanson Huang	DATE : 2024/01/08	PART NO. MRJF-11T1666RS	
  UNIT: mm [inch]	APPROVED BY1: Richard Hsieh	DATE : 2024/01/08	MOLD NO. NA	
	SCALE:1:1 SIZE:A4	APPROVED BY2: Richard Hsieh	DATE : 2024/01/08	DRAW NO.
			SHEET NO.	3 OF 3