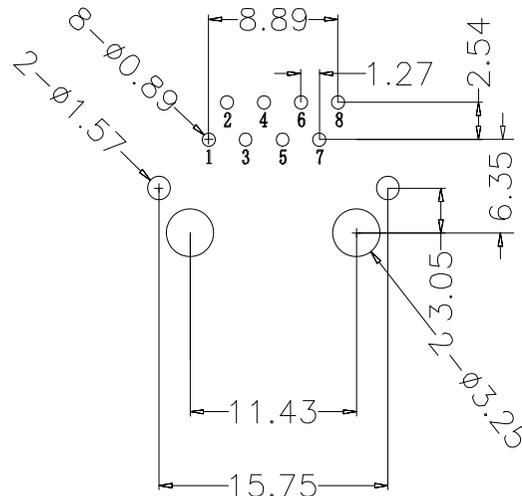
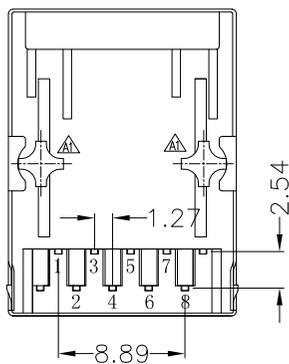
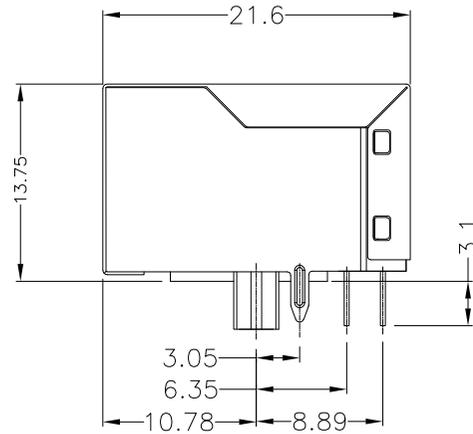
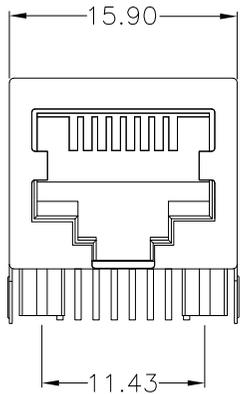


# GP Component

REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
A0			Initial	2019/11/03	Hanson
A1			Change	2020/11/10	Hanson

## 1. MECHANICAL DIMENSIONS :



SUGGESTED PCB LA YOUT (TOP VIEW)

DIMENSIONAL TOLERANCE: .XX ±0.05[0.001]

### NOTES:

- . Housing: PBT UL94V-0,Black
- . Contact :Phosphor Bronze( C5191),Gold plated on contact area 6u".
- . Input Terminal : Brass(C2680)
- . Metal shielding: Copper alloy with Nickel plated(C2680),
- . Different color of LEDs option available
- . Operating temperature:0 °C to +70 °C
- . Storage temperature: -40 °C to +85 °C
- . Lead-free process,compliant RoHS

Printing:  
MATRIX  
MRJF-11T1234RS  
YYWW



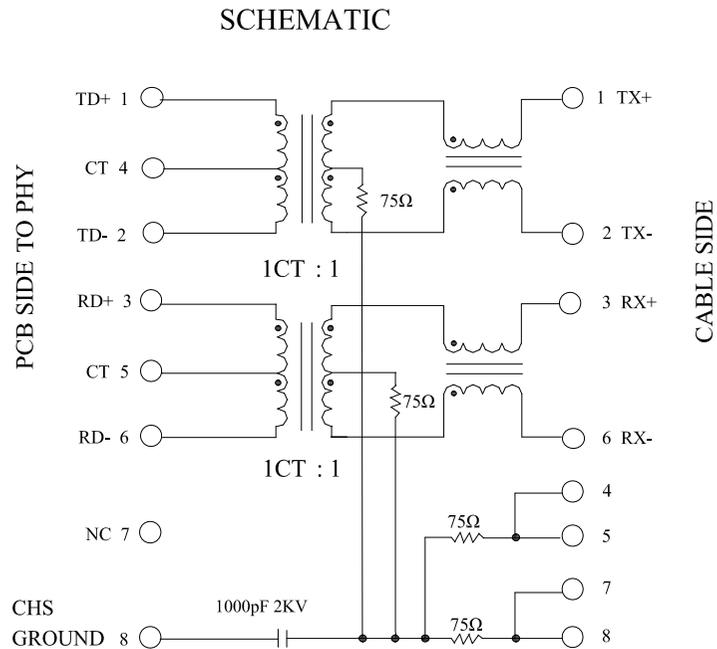
Matrix Electronics Co.,Ltd

TOLERANCE: X:X ±0.38 X:XX ±0.25 X:XXX ±0.13 ANGLE: ±3°	DESIGN BY : Hanson Huang	DATE : 2020/11/10	PART NAME: RJ45 CONNECTORS, 8P8C,100Mbps,FILTER	
	CHECKED BY: Vicky Hsieh	DATE : 2020/11/10	PART NO.	MRJF-11T1234RS
	APPROVED BY1: Richard Hsieh	DATE : 2020/11/10	MOLD NO.	NA
	APPROVED BY2: Richard Hsieh	DATE : 2020/11/10	DRAW NO.	
SCALE:1:1 SIZE:A4			SHEET NO.	1 OF 3

# GP Component

REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
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## 2. SCHEMATIC:



MATRIX PART NO:

MRJ F - 11 T 1234 RS

Matrix-RJ45

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

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

RS : ROHS  
HF : Halogen Free

Series Number

S : SMD  
T : THT

## 3. ELECTRICAL CHARACTERISTICS:

- TR:(100KHz,0.1V); 100%  
PINS:(P1,P2):(J1,J2)=1:1±3%;(P3,P6):(J3,J6)=1:1±3%
- LX:(100KHz,100mV,8mA, DC Bias) 100%  
PINS:(P1,P2)(P3,P6)=350uH MINIMUM
- DCR: 100%  
PINS:(J1,J2),(J3,J6)=1.2Ω MAXIMUM
- HIPOT: 100%  
PINS(P1,P2)TO(J1,J2)=1200VAC FOR 2 SECONDS  
PINS(P3,P6)TO(J3,J6)=1200VAC FOR 2 SECONDS
- INSERTION LOSS:  
-1.0dB MAXIMUM AT 1MHz TO 100MHz;
- RETURN LOSS:  
-18dB MINIMUM AT 1MHz TO 30MHz;  
-12dB MINIMUM AT 60MHz TO 80MHz  
-10dB MINIMUM AT 80MHz TO 100MHz
- CROSSTALK:  
-30dB MINIMUM AT 1MHz TO 100MHz
- COMMON TO COMMON MODE REJECTION:  
-30dB MINIMUM AT 1MHz TO 100MHz  
-20dB MINIMUM AT 150MHz

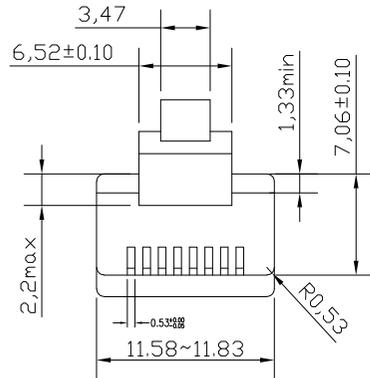


### Matrix Electronics Co.,Ltd

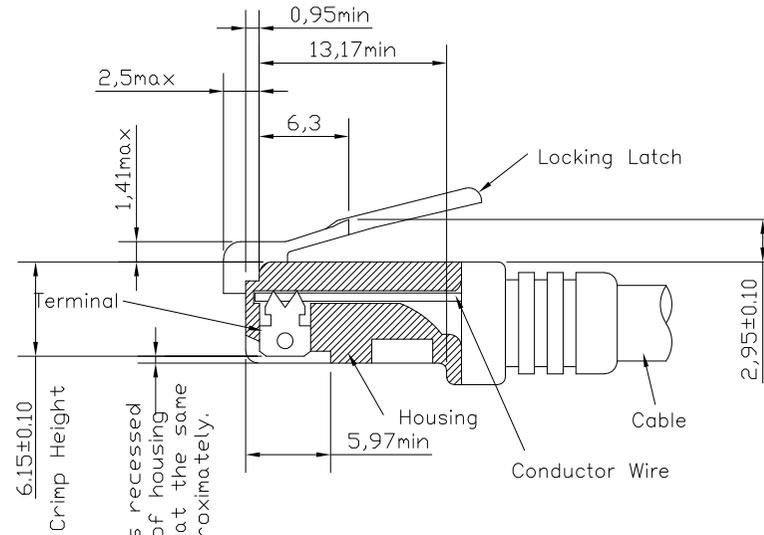
<b>TOLERANCE:</b> X : X X.X ±0.38 X.XX ±0.25 X.XXX ±0.13 ANGLE: ±3°	<b>DESIGN BY :</b> Hanson Huang	<b>DATE :</b> 2020/11/10	<b>PART NAME:</b> RJ45 CONNECTORS, 8P8C,100MBPS,FILTER	
	<b>CHECKED BY:</b> Vicky Hsieh	<b>DATE :</b> 2020/11/10	<b>PART NO.</b>	MRJF-11T1234RS
<b>UNIT: mm [inch]</b>	<b>APPROVED BY1:</b> Richard Hsieh	<b>DATE :</b> 2020/11/10	<b>MOLD NO.</b>	NA
<b>SCALE:1:1 SIZE:A4</b>	<b>APPROVED BY2:</b> Richard Hsieh	<b>DATE :</b> 2020/11/10	<b>DRAW NO.</b>	
			<b>SHEET NO.</b>	2 OF 3

# GP Component

REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
A0			Initial	2019/11/03	Hanson
A1			Change	2020/11/10	Hanson



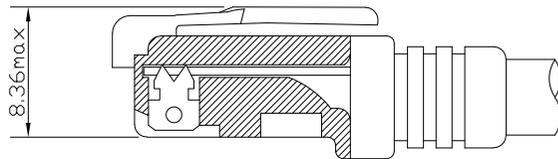
- \* There must be no damage to housing or locking latch. There must be no nicks or cuts in cable.
- \* Durability : 750 cycles generally



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			
<b>TOLERANCE:</b>		<b>DESIGN BY :</b>	<b>DATE :</b>	<b>PART NAME:</b>	
X		Hanson Huang	2020/11/10	RJ45 CONNECTORS, 8P8C,100MBPS,FILTER	
X:X	±0.38	<b>CHECKED BY:</b>	<b>DATE :</b>	<b>PART NO.</b>	MRJF-11T1234RS
X:XX	±0.25	Vicky Hsieh	2020/11/10	<b>MOLD NO.</b>	NA
X:XXX	±0.13	<b>APPROVED BY1:</b>	<b>DATE :</b>	<b>DRAW NO.</b>	
ANGLE:	±3°	Richard Hsieh	2020/11/10	<b>SHEET NO.</b>	3 OF 3
		<b>APPROVED BY2:</b>	<b>DATE :</b>		
<b>UNIT:</b> mm [inch]		Richard Hsieh	2020/11/10		
<b>SCALE:</b> 1:1	<b>SIZE:</b> A4				