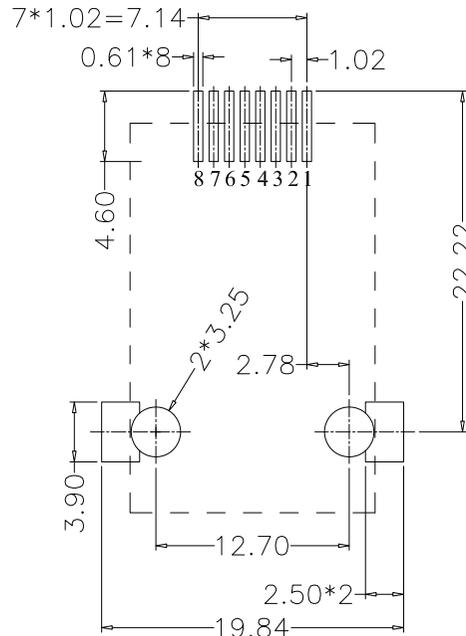
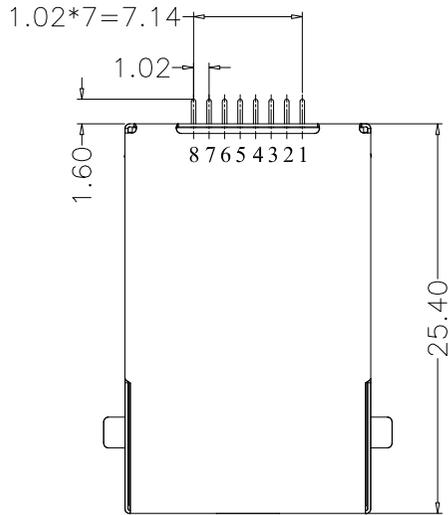
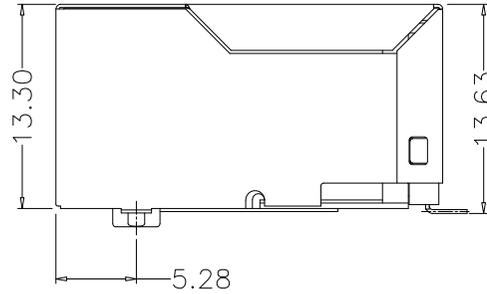
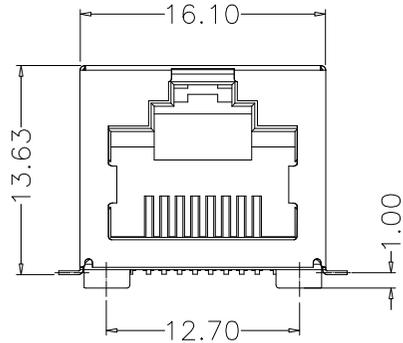


# GP Component

REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
A0			Initial	2016/08/08	Phebe Su

## 1. MECHANICAL DIMENSIONS :



Suggested PCB Layout(Component side view)

### NOTES:

#### 1. MATERIALS:

HOUSING -LCP UL94V-0

STANDARD COLOR-BLACK.

CONTACTS -0.30mm THICK PHOS-BRONZE PLATED WITH GOLD 6u" AND TIN IN SOLDER AREA.

SHIELD -0.2mm THICK COPPER ALLOY, PLATED WITH NICKEL.

#### 2. CAVITY CONFIRMS TO FCC RULES AND REGULATIONS PART 68,SUBPART F.

### MATRIX PART NO :

M R J F - 1 1 S 585 R S

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

NO	VARIETY	QTY	MATERIAL	REMARK
 <b>Matrix Electronics Co.,Ltd</b>				
<b>TOLERANCE:</b> X.X ±0.38 X.XX ±0.25 X.XXX ±0.13 ANGLE: ±3°		<b>DESIGN BY :</b> Phebe Su	<b>DATE :</b> 2016/08/08	<b>PART NAME:</b> RJ45,CONNECTORS,W/D LED THRU,HOLE 100MBPS,FILTER
 <b>UNIT: mm [inch]</b>		<b>CHECKED BY:</b> Vicky Hsieh	<b>DATE :</b> 2016/08/08	<b>PART NO.</b> MRJF-11S585RS
 <b>SCALE:1:1</b>		<b>APPROVED BY1:</b> Richard Hsieh	<b>DATE :</b> 2016/08/08	<b>MOLD NO.</b> NA
<b>SIZE:A4</b>		<b>APPROVED BY2:</b> Richard Hsieh	<b>DATE :</b> 2016/08/08	<b>DRAW NO.</b>
				<b>SHEET NO.</b> 1 of 3

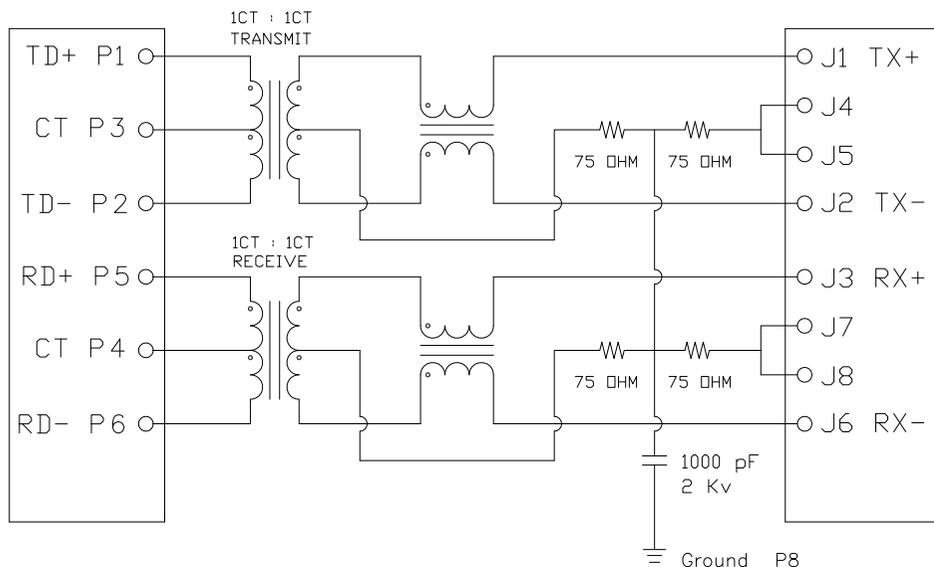
# GP Component

REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
A0			Initial	2016/08/08	Phebe Su

## 2. SCHEMATIC :

CONNECTOR SOLDER SIDE

RJ45 CONTACT SIDE



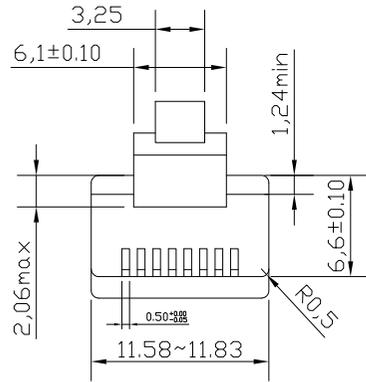
## 3. ELECTRICAL CHARACTERISTICS(25°C) :

1. Turns Ratio:  
TX & Rx = 1:1 ± 3%
2. Insertion Loss:  
@ 1~65MHz : -1.0dB Max
3. Return Loss:  
@ 1~10MHz : -20dB Min  
@ 30MHz : -16dB Min  
@ 60~80MHz : -12dB Min
4. Common Mode Rejection:  
@ 1~50MHz : -30dB Min  
@ 50~130MHz : -20dB Min
5. Crosstalk:  
@ 30~60MHz : -35dB Min  
@ 60~100MHz : -30dB Min
6. OCL: @ 100KHz, 0.1V  
8mADC : 350uH Min
7. Hi-Pot : 2250VDC, 1mA, 60Sec

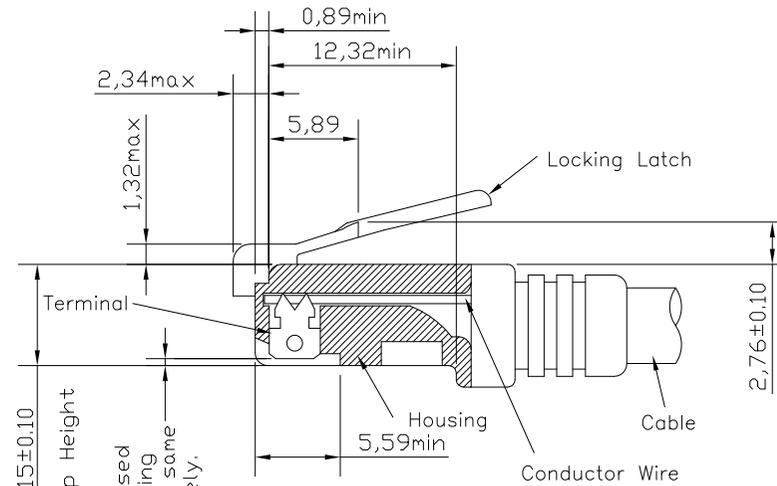
NO	VARIETY	QTY	MATERIAL	REMARK
 <b>Matrix Electronics Co., Ltd</b>				
<b>TOLERANCE:</b> X.X ±0.38 X.XX ±0.25 X.XXX ±0.13 ANGLE: ±3°		<b>DESIGN BY :</b> Phebe Su  <b>CHECKED BY:</b> Vicky Hsieh	<b>DATE :</b> 2016/08/08  <b>DATE :</b> 2016/08/08	<b>PART NAME:</b> RJ45 CONNECTORS, W/O LED THRU-HOLE 100MBPS, FILTER  <b>PART NO.</b> MRJF-11S585RS
 <b>UNIT: mm [inch]</b>		<b>APPROVED BY1:</b> Richard Hsieh  <b>APPROVED BY2:</b> Richard Hsieh	<b>DATE :</b> 2016/08/08  <b>DATE :</b> 2016/08/08	<b>MOLD NO.</b> NA  <b>DRAW NO.</b>  <b>SHEET NO.</b> 2 OF 3
<b>SCALE: 1:1</b> <b>SIZE: A4</b>				

# GP Component

REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
A0			Initial	2016/08/08	Phebe Su



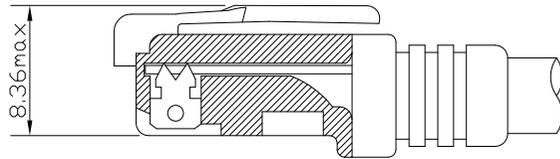
- \* There must be no damage to housing or locking latch. There must be no nicks or cuts in cable.
- \* Durability : 750 cycles generally



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)

NO	VARIETY	QTY	MATERIAL	REMARK
 <b>Matrix Electronics Co.,Ltd</b>				
<b>TOLERANCE:</b> X.X ±0.38 X.XX ±0.25 X.XXX ±0.13 ANGLE: ±3°		<b>DESIGN BY :</b> Phebe Su	<b>DATE :</b> 2016/08/08	<b>PART NAME:</b> RJ45,CONNECTORS,W/O LED THRU,HOLE 100MBPS,FILTER
 UNIT: mm [inch]		<b>CHECKED BY:</b> Vicky Hsieh	<b>DATE :</b> 2016/08/08	<b>PART NO.</b> MRJF-11S585RS
SCALE:1:1 SIZE:A4		<b>APPROVED BY1:</b> Richard Hsieh	<b>DATE :</b> 2016/08/08	<b>MOLD NO.</b> NA
		<b>APPROVED BY2:</b> Richard Hsieh	<b>DATE :</b> 2016/08/08	<b>DRAW NO.</b> SHEET NO. 3 OF 3