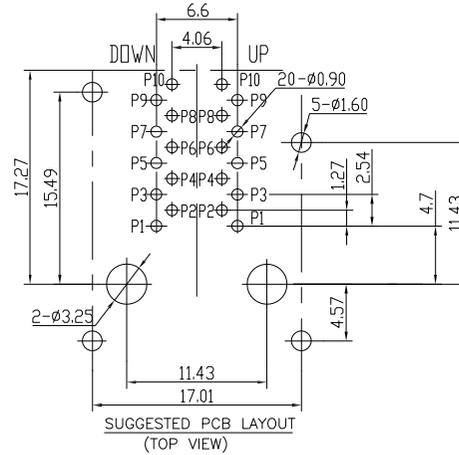
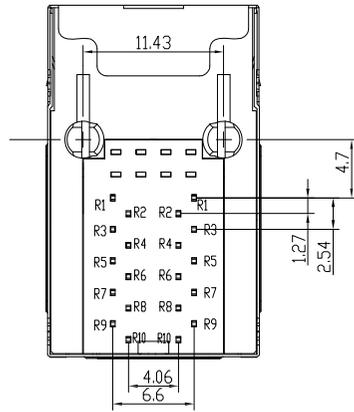


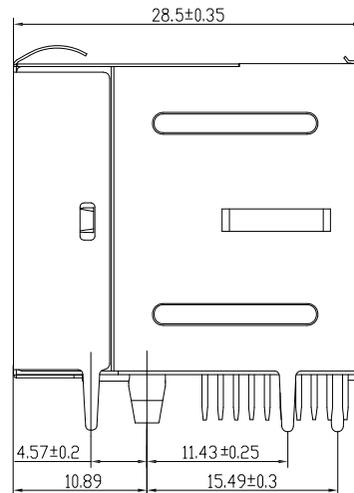
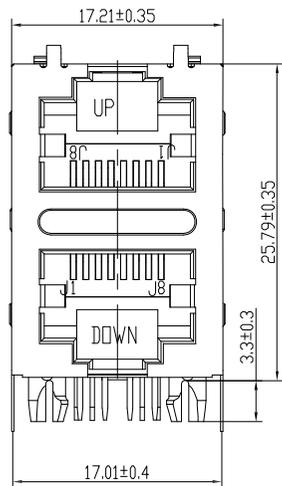
# GP Component

## 1. MECHANICAL DIMENSIONS :



噴印內容:

MATRIX  
MRJF-21T765RS  
YYWW



REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
A0			Initial	2017/11/24	Phebe Su
A1			Remove left and right shrapnel	2017/11/28	Phebe Su
A2			Both sides of the shrapnel push fit	2018/01/09	Phebe Su
A3			Remove left and right shrapnel	2018/01/25	Phebe Su

### NOTES:

#### 1. MATERIALS:

HOUSING: PBT UL94V-0 BLACK

CONTACTS: PHOSPHOR BORNZE, NICKEL UNDERPLATE ON ALL AREA, TIN ON TERMINATION END, GOLD 6u" ON CONTACT AREA.

SHIELD: BRASS C2680-H T=0.18mm±0.06

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

### MATRIX PART NO :

M R J F - 2 1 T 765 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	METERIAL	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> 2018/01/25	<b>PART NAME:</b> RJ45 CONN.W/LED,10P,8C 10/100Mbps,FILTER
 <b>UNIT: mm [inch]</b>		<b>CHECKED BY:</b> Anson Cheng	<b>DATE :</b> 2018/01/25	<b>PART NO.</b> MRJF-21T765RS
 <b>SCALE:1:1 SIZE:A4</b>		<b>APPROVED BY1:</b> Richard Hsieh	<b>DATE :</b> 2018/01/25	<b>MOLD NO.</b> NA
		<b>APPROVED BY2:</b> Richard Hsieh	<b>DATE :</b> 2018/01/25	<b>DRAW NO.</b> <b>SHEET NO.</b> 1 OF 3

# GP Component

REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
A0			Initial	2017/11/24	Phebe Su
A1			Remove left and right shrapnel	2017/11/28	Phebe Su
A2			Both sides of the shrapnel push fit	2018/01/09	Phebe Su
A3			Remove left and right shrapnel	2018/01/25	Phebe Su

## 2. SCHEMATIC:

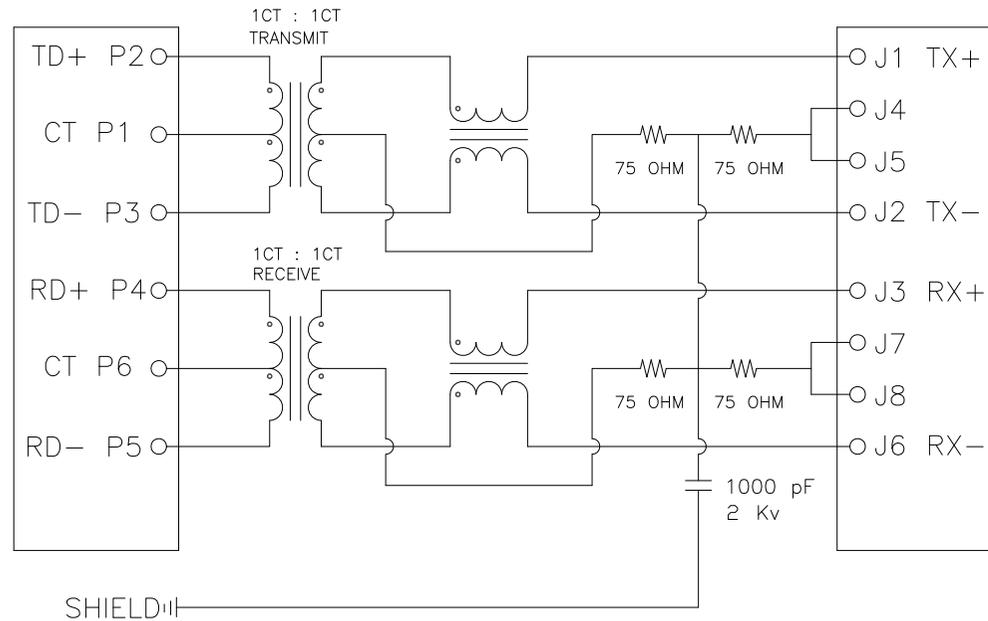
## 3. ELECTRICAL CHARACTERISTICS :

TEST NOTES:(25°±5°C)

- TR:(100KHz,0.1V); 100%  
PINS:(P2,P3):(J1,J2)=1:1±3%;(P4,P5):(J3,J6)=1:1±3%
- LX:(100KHz,100mV,8mA, DC Bias) 100%  
PINS:(P2,P3),(P4,P5)=350uH MINIMUM
- DCR: 100%  
PINS:(J1,J2),(J3,J6)=1.2 OHM MAXIMUM
- HIPOT: 100%  
PINS(P2,P3)TO(J1,J2),(P4,P5)TO(J3,J6)=1500VAC OR 2250VDC FOR 2 SECONDS
- INSERTION LOSS:  
-1.2dB MAXIMUM AT 1MHz TO 125MHz;
- RETURN LOSS:  
-18dB MINIMUM AT 1MHz TO 30MHz;  
-18+20log(f/30)dB MINIMUM AT 30MHz TO 80MHz
- CROSS TALK:  
-30dB MINIMUM AT 1MHz TO 100MHz
- COMMON TO COMMON MODE REJECTION:  
-30dB MINIMUM AT 1MHz TO 100MHz

CONNECTOR SOLDER SIDE

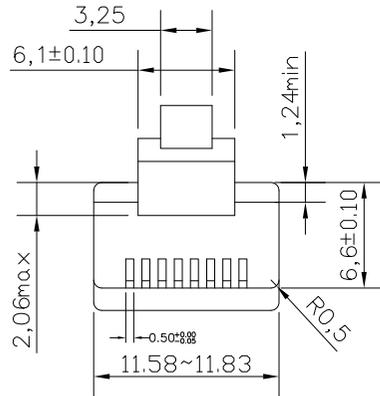
RJ45 CONTACT SIDE



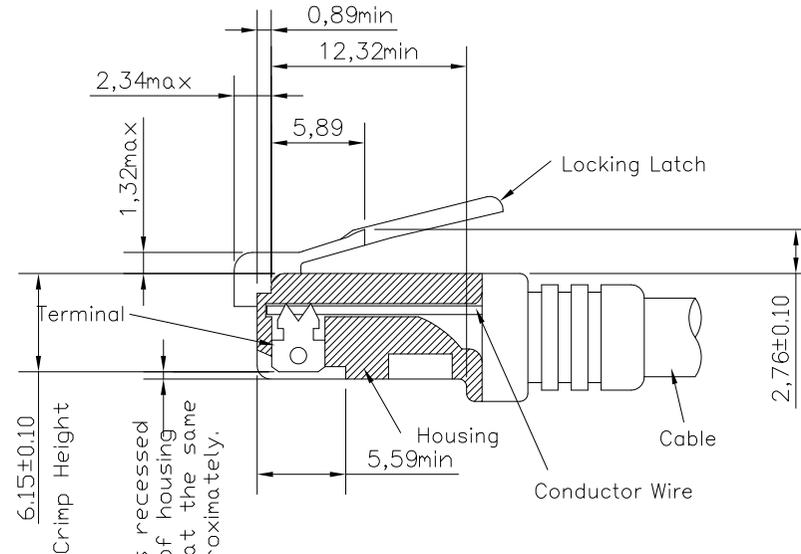
NO	VARIETY	QTY	METERIAL	REMARK
 <b>Matrix Electronics Co.,Ltd</b>				
<b>TOLERANCE:</b> X.X ±0.38 X.XX ±0.25 X.XXX ±0.13 ANGLE: ±3°		<b>DESIGN BY :</b> Phebe Su	<b>DATE :</b> 2018/01/25	<b>PART NAME:</b> RJ45 CONN.W/LED,10P,8C 10/100Mbps,FILTER
 <b>UNIT: mm [inch]</b>		<b>CHECKED BY:</b> Anson Cheng	<b>DATE :</b> 2018/01/25	<b>PART NO.</b> MRJF-21T765RS
<b>SCALE:1:1</b> <b>SIZE:A4</b>		<b>APPROVED BY1:</b> Richard Hsieh	<b>DATE :</b> 2018/01/25	<b>MOLD NO.</b> NA
		<b>APPROVED BY2:</b> Richard Hsieh	<b>DATE :</b> 2018/01/25	<b>DRAW NO.</b> <b>SHEET NO.</b> 2 OF 3

# GP Component

REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
A0			Initial	2017/11/24	Phebe Su
A1			Remove left and right shrapnel	2017/11/28	Phebe Su
A2			Both sides of the shrapnel push fit	2018/01/09	Phebe Su
A3			Remove left and right shrapnel	2018/01/25	Phebe Su



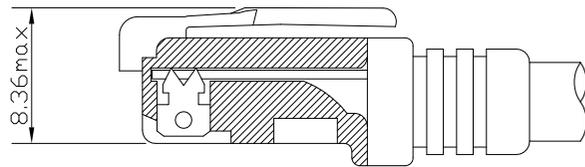
- \* There must be no damage to housing or locking latch. There must be no nicks or cuts in cable.
- \* Durability : 750 cycles generally



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> 2018/01/25	<b>PART NAME:</b> RJ45 CONN.W/LED,10P,8C 10/100Mbps,FILTER
 <b>UNIT: mm [inch]</b>		<b>CHECKED BY:</b> Anson Cheng	<b>DATE :</b> 2018/01/25	<b>PART NO.</b> MRJF-21T765RS
<b>SCALE:1:1</b> <b>SIZE:A4</b>		<b>APPROVED BY1:</b> Richard Hsieh	<b>DATE :</b> 2018/01/25	<b>MOLD NO.</b> NA
		<b>APPROVED BY2:</b> Richard Hsieh	<b>DATE :</b> 2018/01/25	<b>DRAW NO.</b> <b>SHEET NO.</b> 3 OF 3