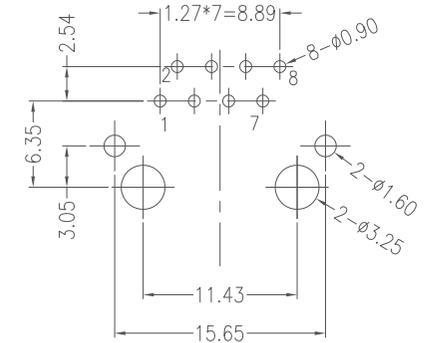
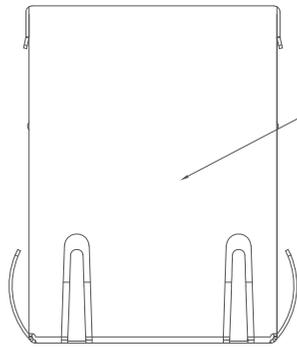


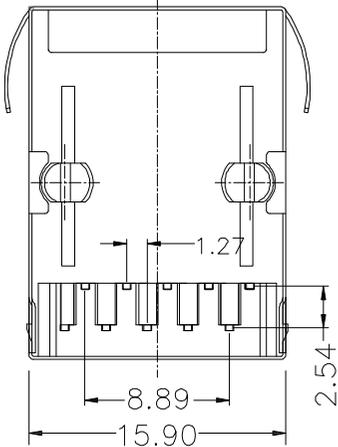
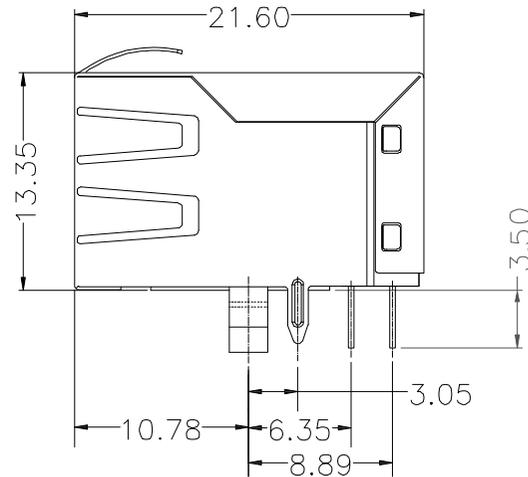
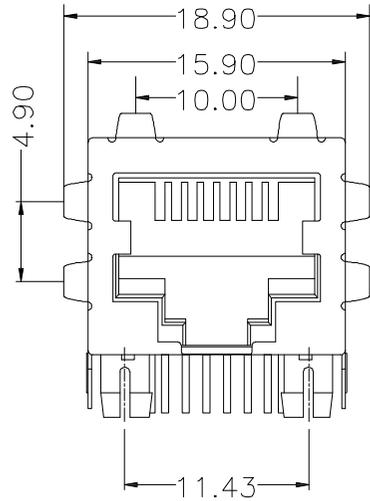
# GP Component

REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
A0			Initial	2018/03/14	Phebe Su

## 1. MECHANICAL:



RECOMMEND PCB LAYOUT  
(TOP VIEW)  
DIMENSIONAL TOLERANCE: ±0.05



## NOTES:

### 1. MATERIAL:

HOUSING: PBT BLACK UL94V-0

CONTACTS: PHOSPHOR BRONZE T=0.35

GOLD FLASH ON CONTACT AREA, TIN PLATING ON SOLDER TAIL  
SHIELD : STAINLESS T=0.20, NICKEL PLATING OVERALL

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



Matrix Electronics Co., Ltd

<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> 2018/03/14	<b>PART NAME:</b> RJ45,CONN,W/O,LED,8P8C HOLE10/100MBPS,FILTER
	<b>CHECKED BY:</b> Anson Cheng	<b>DATE :</b> 2018/03/14	<b>PART NO.</b> MRJF-11T820RS
 <b>UNIT: mm [inch]</b> <b>SCALE:1:1 SIZE:A4</b>	<b>APPROVED BY1:</b> Richard Hsieh	<b>DATE :</b> 2018/03/14	<b>MOLD NO.</b> NA
	<b>APPROVED BY2:</b> Richard Hsieh	<b>DATE :</b> 2018/03/14	<b>DRAW NO.</b> <b>SHEET NO.</b> 1 of 2

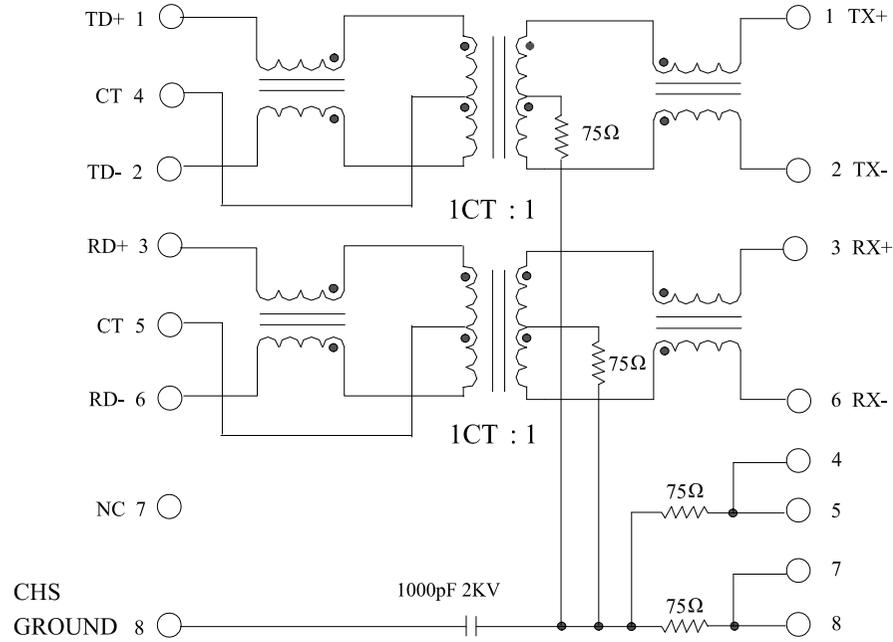
# GP Component

REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
A0			Initial	2018/03/14	Phebe Su

## 2. SCHEMATIC:

CONNECTOR SOLDER SIDE

RJ45 CONTACT SIDE



## 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)=1.2 Ω MAXIMUM
- HIPOT: 100%  
PINS(P1,P2)TO(J1,J2),(P3,P6)TO(J3,J6)=1500VAC FOR 60 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
- CROSS TALK:  
-30dB MINIMUM AT 1MHz TO 100MHz
- COMMON TO COMMON MODE REJECTION:  
-30dB MINIMUM AT 1MHz TO 100MHz  
-20dB MINIMUM AT 150MHz

## ORDER INFORMATION :

M R J F - 1 1 T 820 R S

Matrix-RJ45

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

RS : ROHS  
HF : Halogen Free

Series Number

S : SMD  
T : THT

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



Matrix Electronics Co.,Ltd

TOLERANCE: X.X ±0.38 X.XX ±0.25 X.XXX ±0.13 ANGLE: ±3°	DESIGN BY : Phebe Su	DATE : 2018/03/14	PART NAME: RJ45,CONN,W/O_LED,8P8C HOLE10/100MBPS,FILTER
	CHECKED BY: Anson Cheng	DATE : 2018/03/14	PART NO. MRJF-11T820RS
	APPROVED BY1: Richard Hsieh	DATE : 2018/03/14	MOLD NO. NA
	APPROVED BY2: Richard Hsieh	DATE : 2018/03/14	DRAW NO.
UNIT: mm [inch] SCALE:1:1 SIZE:A4			SHEET NO. 2 OF 2