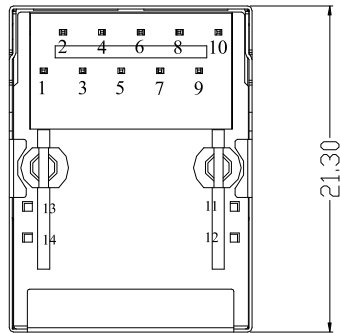


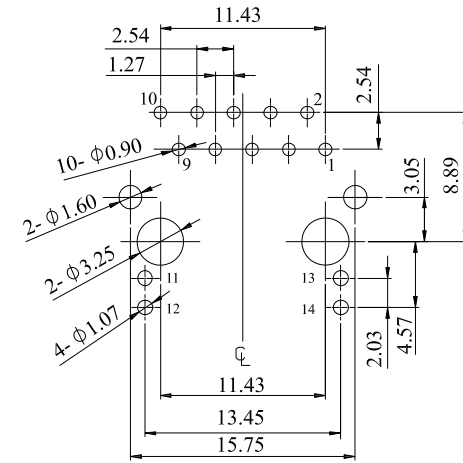
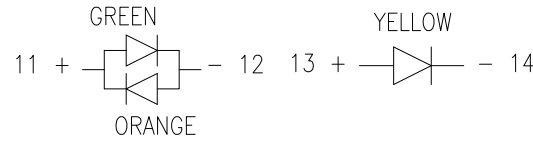
# GP Component

REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
AO			Initial	2018/08/24	Phebe Su

## 1. MECHANICAL DIMENSIONS :



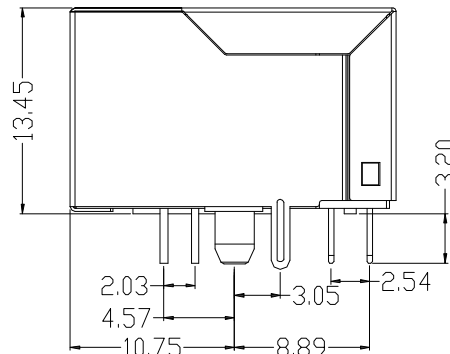
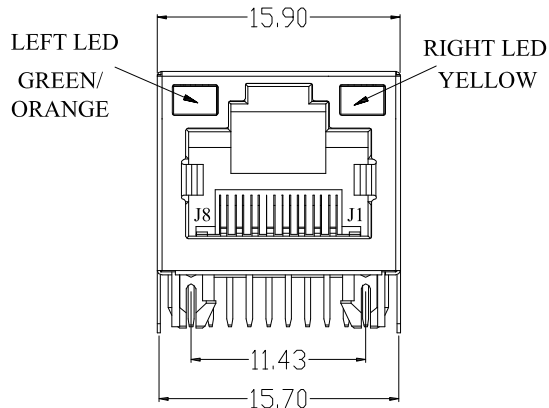
Printing :  
 MATRIX  
 MRJG-11T1057RS  
 YYWW



PCB LAYOUT TOLERANCE: ±0.05  
 (TOP VIEW)

### NOTES:

- MATERIAL:  
 HOUSING: PBT, BLACK, UL 94V-0  
 CONTACT: PHOSPHOR BRONZE  
 SHELL: BRASS
- FINISH:  
 CONTACT: NICKEL UNDERPLATING ALL AREA, TIN ON SOLDER TAILS,  
 GOLD 30u" PLATING ON CONTACT AREA.  
 SHELL: NICKEL PRE-PLATING ALL AREA.
- OPERATING TEMPERATURE: 0°C ~ +70°C.
- JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 68, SUBPART F



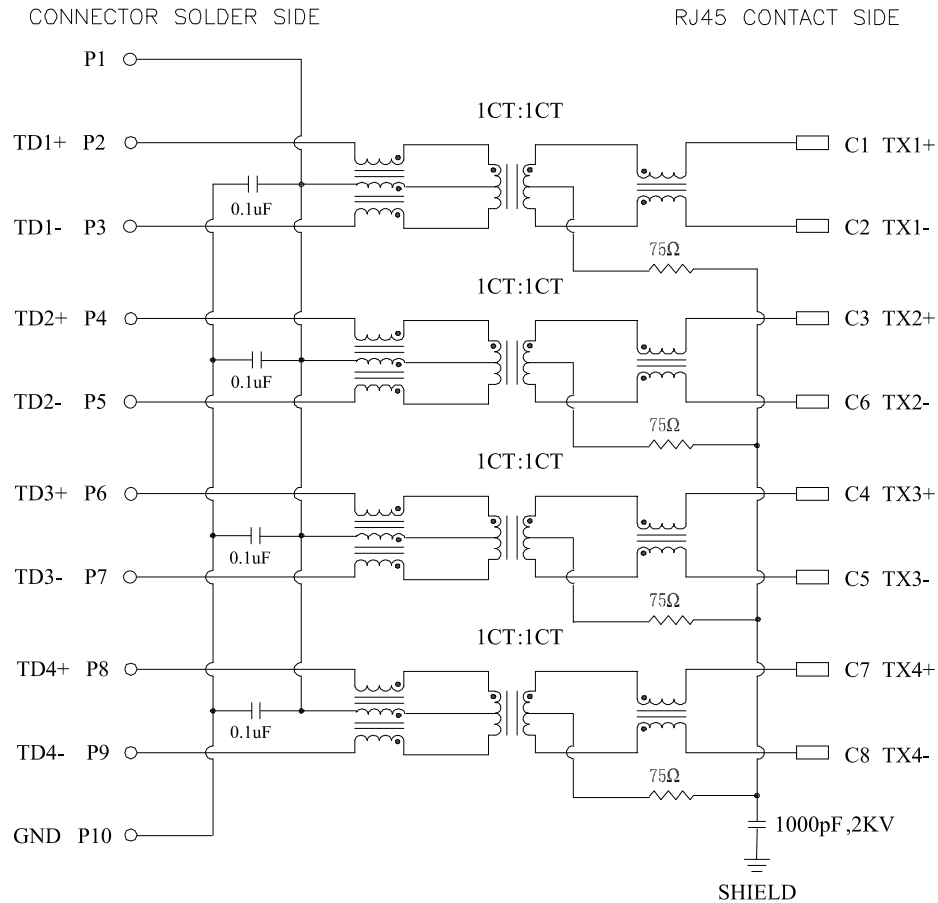
Matrix Electronics Co., Ltd

<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> 2018/08/24	<b>PART NAME:</b> RJ45 CONN W/LED 1G Base-T, FILTER
	<b>CHECKED BY:</b> Yoyo Yeh	<b>DATE :</b> 2018/08/24	<b>PART NO.</b> MRJG-11T1057RS
 <b>UNIT: mm [inch]</b> <b>SCALE: 1:1 SIZE: A4</b>	<b>APPROVED BY1:</b> Richard Hsieh	<b>DATE :</b> 2018/08/24	<b>MOLD NO.</b> NA
	<b>APPROVED BY2:</b> Richard Hsieh	<b>DATE :</b> 2018/08/24	<b>DRAW NO.</b> SHEET NO. 1 OF 2

# GP Component

REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
A0			Initial	2018/08/24	Phebe Su

## 2. SCHEMATIC:



MATRIX PART NO:

M R J G - 1 1 T 1057 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

## 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%  
PINS:(P6,P7):(J4,J5)=1:1±3%;(P8,P9):(J7,J8)=1:1±3%
- LX:(100KHz,100mV,8mA, DC Bias) 100%  
PINS:(P2,P3),(P4,P5)=350uH MINIMUM  
PINS:(P6,P7),(P8,P9)=350uH MINIMUM
- DCR: 100%  
PINS:(J1,J2),(J3,J6),(J4,J5),(J7,J8)=1.2 Ω MAXIMUM
- HIPOT: 100%  
PINS(P2,P3)TO(J1,J2)=1500VAC  
PINS(P4,P5)TO(J3,J6)=1500VAC  
PINS(P6,P7)TO(J4,J5)=1500VAC  
PINS(P8,P9)TO(J7,J8)=1500VAC
- 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



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> 2018/08/24	<b>PART NAME:</b> RJ45 CONN W/LED 1G Base-T,FILTER
	<b>CHECKED BY:</b> Yoyo Yeh	<b>DATE :</b> 2018/08/24	<b>PART NO.</b> MRJG-11T1057RS
 <b>UNIT: mm [inch]</b>	<b>APPROVED BY1:</b> Richard Hsieh	<b>DATE :</b> 2018/08/24	<b>MOLD NO.</b> NA
	<b>APPROVED BY2:</b> Richard Hsieh	<b>DATE :</b> 2018/08/24	<b>DRAW NO.</b> <b>SHEET NO.</b> 2 OF 2
<b>SCALE:1:1</b>	<b>SIZE:A4</b>		