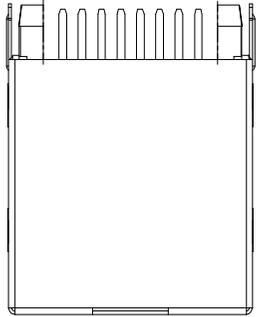


# GP Component

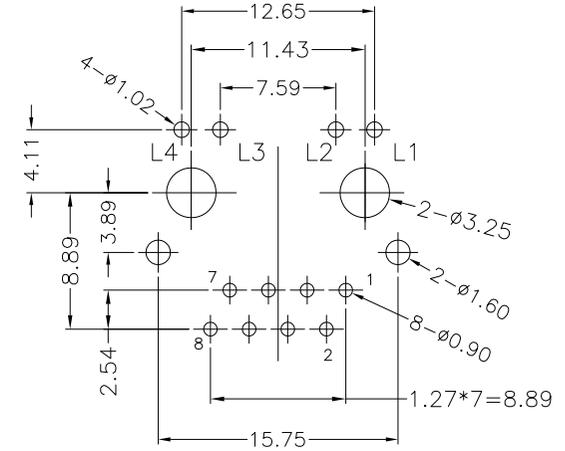
REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
A0			Initial	2018/04/12	Phebe Su

## 1. MECHANICAL DIMENSIONS :



噴印內容：

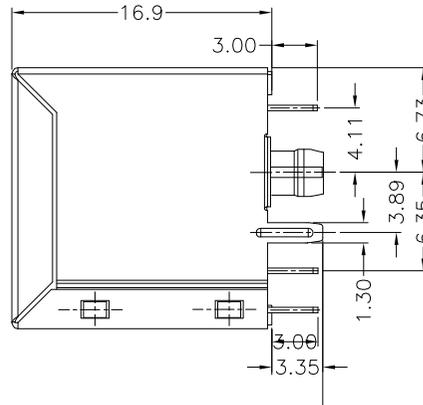
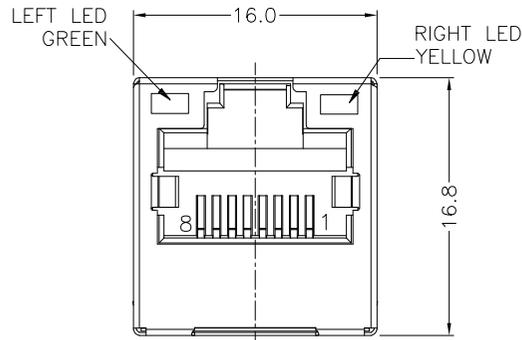
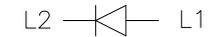
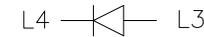
MATRIX  
MRJF-11T832RS  
YYWW



RECOMMEN PCB LAYOUT  
COMPONENT SIDE  
TOLERANCE ±0.05

GREEN

YELLOW



### NOTES:

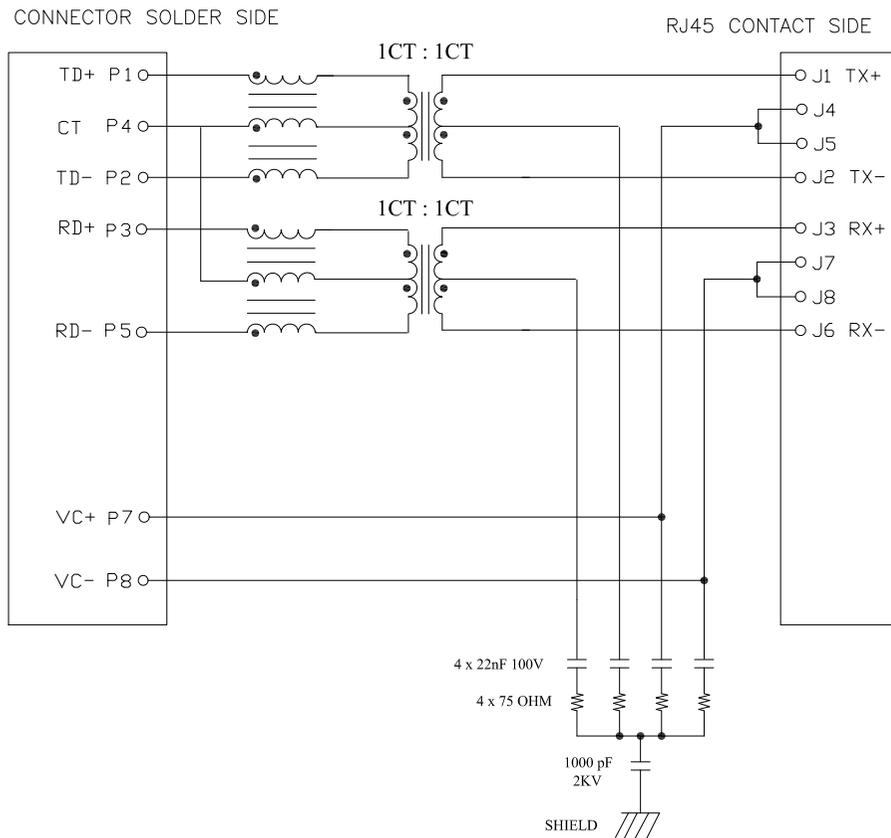
- MATERIALS:  
HOUSING: PBT, UL94V-0, BLACK  
CONTACTS: PHOSPHOR BRONZE, GOLD 6u" ON CONTACT AREA, TIN ON SOLDER TAIL  
SHELL: COPPER ALLOY, NICKEL PLATING OVERALL
- OPERATING TEMPERATURE: 0°C ~ +70°C
- JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 68, SUBPART F

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> 2018/04/12	<b>PART NAME:</b> RJ45 CONNECTORS W/LED 8P,8C 100Mbps FILTER
		<b>CHECKED BY:</b> Vicky Hsieh	<b>DATE :</b> 2018/04/12	<b>PART NO.</b> MRJF-11T832RS
		<b>APPROVED BY1:</b> Richard Hsieh	<b>DATE :</b> 2018/04/12	<b>MOLD NO.</b> NA
		<b>APPROVED BY2:</b> Richard Hsieh	<b>DATE :</b> 2018/04/12	<b>DRAW NO.</b>
<b>UNIT:</b> mm [inch]				
<b>SCALE:</b> 1:1	<b>SIZE:</b> A4	<b>SHEET NO.</b> 1 OF 3		

# GP Component

REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
A0			Initial	2018/04/12	Phebe Su

## 2. SCHEMATIC:



### ORDER INFORMATION :

**M R J F - 1 1 T 832 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 : RDHS  
 HF : Halogen Free  
 Series Number  
 S : SMD  
 T : THT

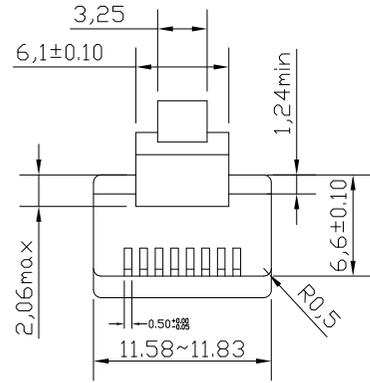
## 3. ELECTRICAL CHARACTERISTICS(25±5°C) :

- TR:(100KHz,0.1V);  
PINS:(P1,P2):(J1,J2)=1:1±3%  
PINS:(P3,P5):(J3,J6)=1:1±3%
- LX:(100KHz,100mV, 15mA, DC Bias)  
PINS:(P1,P2)=350uH MINIMUM  
PINS:(P3,P5)=350uH MINIMUM
- DCR:  
PINS:(J1,J2)=1.2 Ω MAXIMUM  
PINS:(J3,J6)=1.2 Ω MAXIMUM
- HIPOT: 100%  
PINS(P1,P2)TO(J1,J2)=1500VAC FOR 60 SECONDS  
PINS(P3,P5)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
- BALANCED DC LINE CURRENT 600mA MAX@57VDC

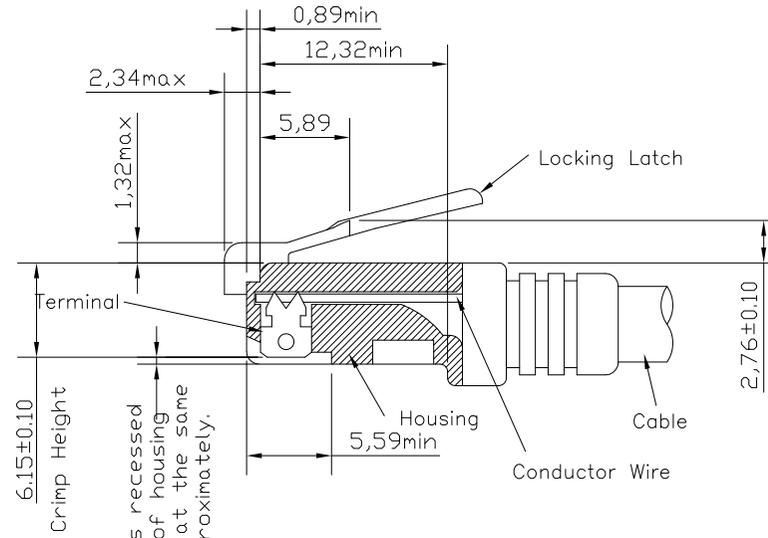
NO	VARIETY	QTY	MATERIAL	REMARK
 <b>Matrix Electronics Co.,Ltd</b>				
<b>TOLERANCE:</b> X.X ±0.38 X.XX ±0.25 X.XXX ±0.13 ANGLE: ±3°		<b>DESIGN BY :</b> Phebe Su <b>CHECKED BY:</b> Vicky Hsieh <b>APPROVED BY1:</b> Richard Hsieh <b>APPROVED BY2:</b> Richard Hsieh	<b>DATE :</b> 2018/04/12 <b>DATE :</b> 2018/04/12 <b>DATE :</b> 2018/04/12 <b>DATE :</b> 2018/04/12	<b>PART NAME:</b> RJ45 CONNECTORS,W/LED 8P,8C 100Mbps,FILTER <b>PART NO.</b> MRJF-11T832RS <b>MOLD NO.</b> NA <b>DRAW NO.</b> <b>SHEET NO.</b> 2 OF 3
 UNIT: mm [inch] SCALE:1:1 SIZE:A4				

# GP Component

REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
A0			Initial	2018/04/12	Phebe Su



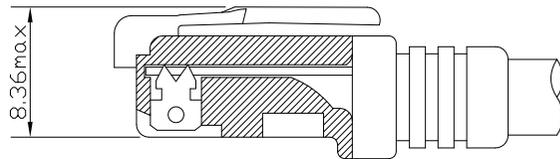
- \* There must be no damage to housing or locking latch. There must be no nicks or cuts in cable.
- \* Durability : 750 cycles generally



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> 2018/04/12	<b>PART NAME:</b> RJ45 CONNECTORS, W/LED 8P,8C 100Mbps, FILTER
 <b>UNIT: mm [inch]</b>		<b>CHECKED BY:</b> Vicky Hsieh	<b>DATE :</b> 2018/04/12	<b>PART NO.</b> MRJF-11T832RS
<b>SCALE:1:1</b> <b>SIZE:A4</b>		<b>APPROVED BY1:</b> Richard Hsieh	<b>DATE :</b> 2018/04/12	<b>MOLD NO.</b> NA
		<b>APPROVED BY2:</b> Richard Hsieh	<b>DATE :</b> 2018/04/12	<b>DRAW NO.</b> <b>SHEET NO.</b> 3 OF 3