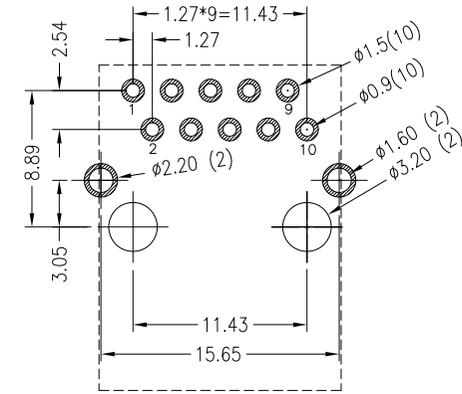
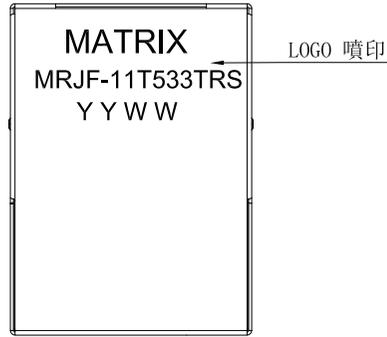


# GP Component

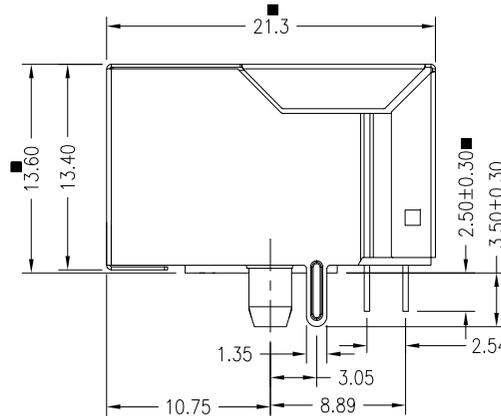
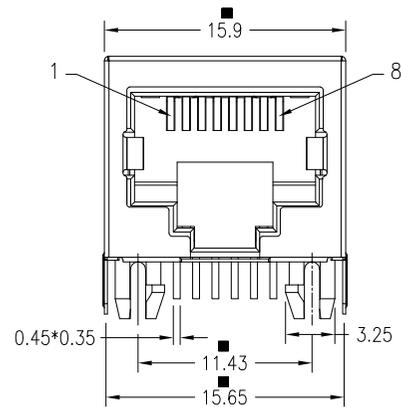
REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
A0			Initial	2017/09/29	Phebe Su
A1			Change pin length	2018/06/11	Phebe Su

## 1. MECHANICAL DIMENSIONS :



SUGGESTED PCB LAYOUT  
(TOP VIEW)  
DIMENSIONAL TOLERANCE: .XX  $\pm 0.05$ [0.002]

PAD AREA



### NOTES:

#### 1. MATERIALS:

HOUSING -PBT POLYESTER UL94V-0  
MIXED GLASS FIBER.  
STANDARD COLOR-BLACK.

CONTACTS -0.35mm THICK PHOS-BRONZE PLATED  
WITH G/F 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.



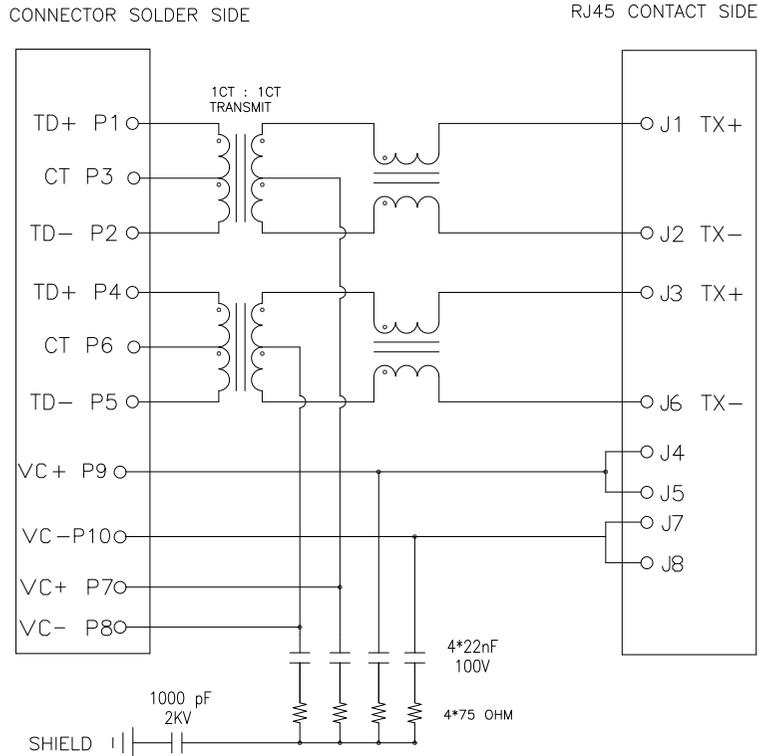
Matrix Electronics Co.,Ltd

<b>TOLERANCE:</b> X.X X.XX $\pm 0.38$ X.XXX $\pm 0.25$ X.XXX $\pm 0.13$ ANGLE: $\pm 3^\circ$	<b>DESIGN BY :</b> Phebe Su	<b>DATE :</b> 2018/06/11	<b>PART NAME:</b> RJ45,CONNECTORS,W/O LED POE,THRU,HOLE 100MBPS,FILTER	
	<b>CHECKED BY:</b> Vicky Hsieh	<b>DATE :</b> 2018/06/11	<b>PART NO.</b>	MRJF-11T533TRS
	<b>APPROVED BY1:</b> Richard Hsieh	<b>DATE :</b> 2018/06/11	<b>MOLD NO.</b>	NA
	<b>APPROVED BY2:</b> Richard Hsieh	<b>DATE :</b> 2018/06/11	<b>DRAW NO.</b>	
<b>SCALE:1:1</b>	<b>SIZE:A4</b>		<b>SHEET NO.</b>	1 OF 3

# GP Component

REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
A0			Initial	2017/09/29	Phebe Su
A1			Change pin length	2018/06/11	Phebe Su

## 2. SCHEMATIC:



### ORDER INFORMATION :

**M R J F - 1 1 T 533 T 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  
 S: SMD  
 T: THT  
 RS: ROHS  
 HF: Halogen Free  
 Industrial temperature  
 Series Number

## 3. ELECTRICAL CHARACTERISTICS :

TEST NOTES:(25°±5°C)

- TR:(100KHz,0.1V); 100%  
PINS:(P1,P2):(J1,J2)=1:1±3%;(P4,P5):(J3,J6)=1:1±3%
- LX:(100KHz,100mV,8mA, DC Bias) 100%  
PINS:(P1,P2),(P4,P5)=350uH MINIMUM
- DCR: 100%  
PINS:(J1,J2),(J3,J6)=1.2 Ω MAXIMUM
- HIPOT: 100%  
PINS(P1,P2)TO(J1,J2),(P4,P5)TO(J3,J6)=1500VAC FOR 2 SECONDS
- INSERTION LOSS:  
-1.0dB MAXIMUM AT 1MHz TO 100MHz;
- RETURN LOSS:  
-20dB MINIMUM AT 1MHz TO 30MHz;  
-15dB MINIMUM AT 30MHz TO 60MHz  
-10dB MINIMUM AT 60MHz TO 80MHz
- CROSS TALK:  
-30dB MINIMUM AT 1MHz TO 100MHz
- COMMON TO COMMON MODE REJECTION:  
-30dB MINIMUM AT 1MHz TO 100MHz
- Balanced DC LINE CURRENT  
350mA MAX@48V DC CONNTINUOUS
- Operating Temperature: -40°C TO 85°C

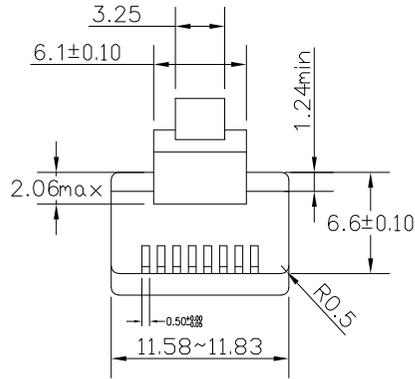


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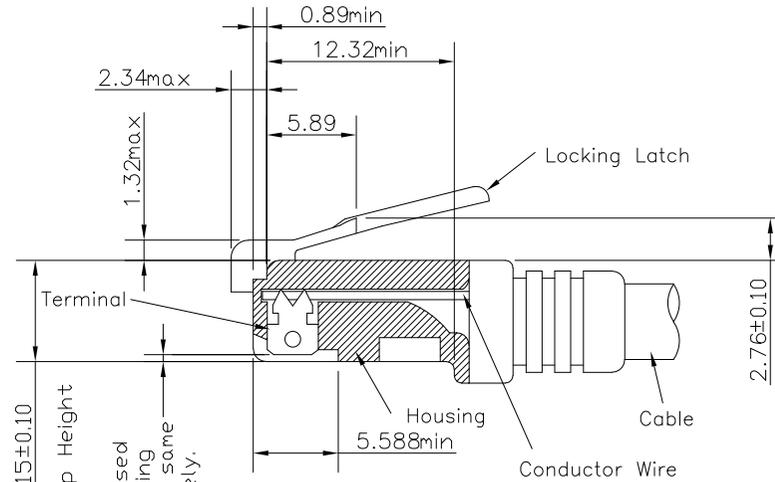
<b>TOLERANCE:</b> X: X X.X ±0.38 X.XX ±0.25 X.XXX ±0.13 ANGLE: ±3°	<b>DESIGN BY :</b> Phebe Su	<b>DATE :</b> 2018/06/11	<b>PART NAME:</b> RJ45,CONNECTORS,W/O LED POE,THRU,HOLE 100Mbps,FILTER
	<b>CHECKED BY:</b> Vicky Hsieh	<b>DATE :</b> 2018/06/11	<b>PART NO.</b> MRJF-11T533TRS
 <b>UNIT: mm [inch]</b>	<b>APPROVED BY1:</b> Richard Hsieh	<b>DATE :</b> 2018/06/11	<b>MOLD NO.</b> NA
	<b>SCALE:1:1</b>	<b>APPROVED BY2:</b> Richard Hsieh	<b>DATE :</b> 2018/06/11
<b>SIZE:A4</b>		<b>SHEET NO.</b> 2 OF 3	

# GP Component

REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
A0			Initial	2017/09/29	Phebe Su
A1			Change pin length	2018/06/11	Phebe Su



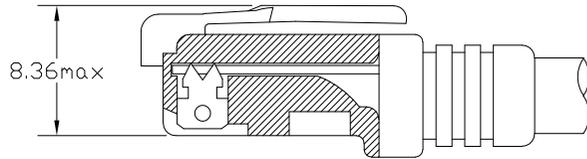
- \* There must be no damage to housing or locking latch. There must be no nicks or cuts in cable.
- \* Durability : 750 cycles generally



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)



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<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> 2018/06/11	<b>PART NAME:</b> RJ45,CONNECTORS,W/O LED POE,THRU,HOLE 100Mbps,FILTER	
	<b>CHECKED BY:</b> Vicky Hsieh	<b>DATE :</b> 2018/06/11	<b>PART NO.</b>	MRJF-11T533TRS
 <b>UNIT: mm [inch]</b>	<b>APPROVED BY1:</b> Richard Hsieh	<b>DATE :</b> 2018/06/11	<b>MOLD NO.</b>	NA
	<b>SCALE:1:1</b>	<b>APPROVED BY2:</b> Richard Hsieh	<b>DATE :</b> 2018/06/11	<b>DRAW NO.</b> <b>SHEET NO.</b>
<b>SIZE:A4</b>			<b>DRAW NO.</b>	3 OF 3