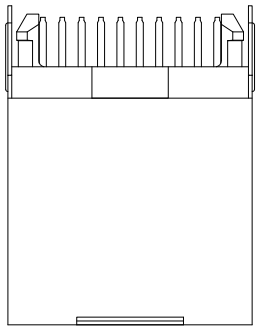
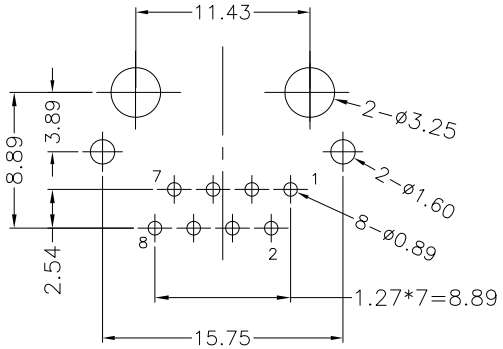
GP Component

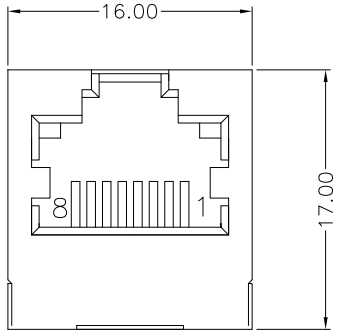
| REV. | ECN NO. | LOCATIONS | DESCRIPTION | DATE | DESIGN |
|---|---|---|---|---|---|
| A0 | | | Initial | 2015/11/23 | Phebe Su |
| A1 | | | Modify operating temperature | 2017/07/13 | Phebe Su |

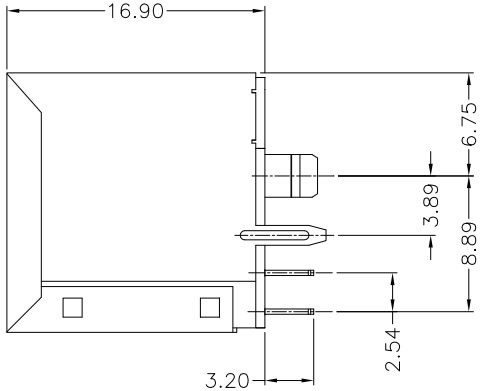
# 1. MECHANICAL DIMENSIONS :






RECOMMENED PCB LAYOUT
COMPONENT SIDE
TOLERANCE ±0.05




NOTES:

1. MATERIALS:
   HOUSING: PBT, UL94V-0, BLACK
   CONTACTS: PHOSPHOR BRONZE T=0.30
   GOLD FLASH ON COANTCT AREA
   80u" TIN ON SOLDERTAIL
   SHELL: COPPER ALLOY T=0.20
   NICKEL PLATING OVERALL
2. OPERATING TEMPERATURE: 0℃ ~ +70℃
3. JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 68, SUBPART F

| NO | VARIETY | QTY | METERIAL | REMARK |
|---|---|---|---|---|

Matrix Electronics Co.,Ltd

| | | | | |
|---|---|---|---|---|
| TOLERANCE: X. ±0.38, X.X ±0.25, X.XX ±0.13, X.XXX, ANGLE: ±3° | DESIGN BY : Phebe Su | DATE : 2017/07/13 | PART NAME: RJ45,CONNECTORS,W/O LED 8P,8C 100MBPS,FILTER | |
| | CHECKED BY: Vicky Hsieh | DATE : 2017/07/13 | PART NO. | MRJF-11T417RS |
| UNIT: mm [inch] | APPROVED BY1: Richard Hsieh | DATE : 2017/07/13 | MOLD NO. | NA |
| | APPROVED BY2: Richard Hsieh | DATE : 2017/07/13 | DRAW NO. | |
| SCALE:1:1 SIZE:A4 | | | SHEET NO. | 1 OF 3 |

GP Component

| REV. | ECN NO. | LOCATIONS | DESCRIPTION | DATE | DESIGN |
|---|---|---|---|---|---|
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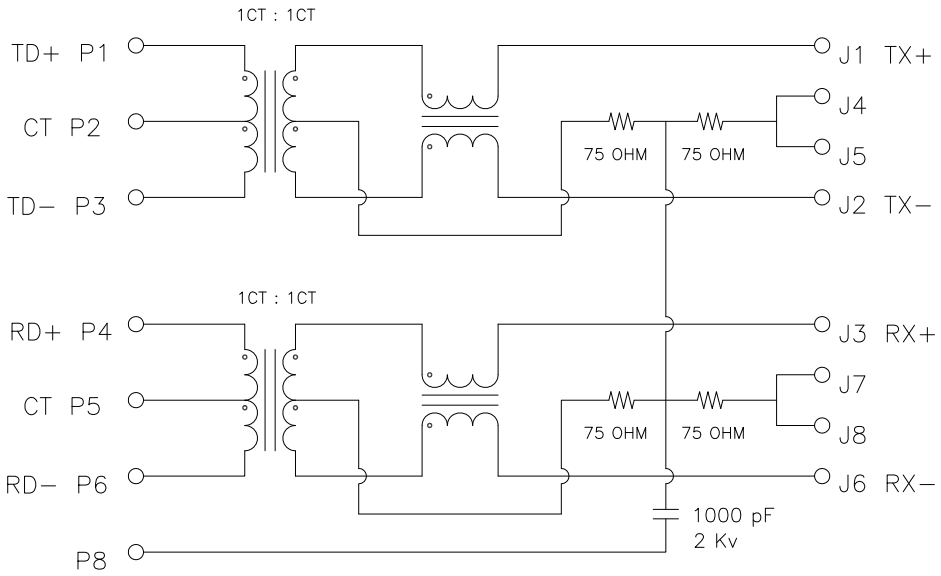
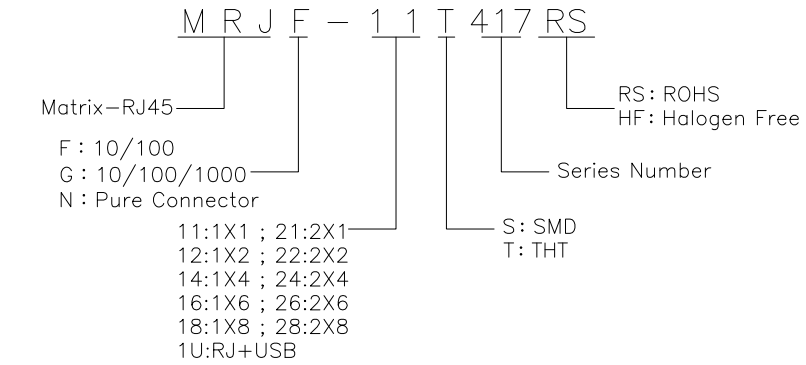
## 2. SCHEMATIC:

CONNECTOR SOLDER SIDE

RJ45 CONTACT SIDE




ORDER INFORMATION :




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

1. TR:(100KHz,0.1V); 100%
   PINS:(P1,P3):(J1,J2)=1:1±3%;
   PINS:(P4,P6):(J4,J5)=1:1±3%;
2. LX:(100KHz,100mV,8mA, DC Bias) 100%
   PINS:(P1,P3)=350uH MINIMUM
   PINS:(P4,P6)=350uH MINIMUM
3. DCR: 100%
   PINS:(J1,J2),(J3,J6)=1.2 Ω MAXIMUM
4. HIPOT: 100%
   PINS(P1,P3)TO(J1,J2),(P4,P6)TO(J3,J6)=1500VAC FOR 60 SECONDS
5. INSERTION LOSS:
   −1.0dB MAXIMUM AT 1MHz TO 100MHz;
6. RETURN LOSS:
   −18dB MINIMUM AT 1MHz TO 30MHz;
   −16dB MINIMUM AT 30MHz TO 60MHz
   −12dB MINIMUM AT 60MHz TO 80MHz
7. CROSS TALK:
   −30dB MINIMUM AT 1MHz TO 100MHz
8. COMMON TO COMMON MODE REJECTION:
   −30dB MINIMUM AT 1MHz TO 100MHz

| NO | VARIETY | QTY | METERIAL | REMARK |
|---|---|---|---|---|

Matrix Electronics Co.,Ltd

| | | | | |
|---|---|---|---|---|
| TOLERANCE: X. X.X ±0.38 X.XX ±0.25 X.XXX ±0.13 ANGLE: ±3° | DESIGN BY : Phebe Su | DATE : 2017/07/13 | PART NAME: RJ45,CONNECTORS,W/O LED 8P,8C 100MBPS,FILTER | |
| | CHECKED BY: Vicky Hsieh | DATE : 2017/07/13 | PART NO. | MRJF−11T417RS |
| UNIT: mm [inch] | APPROVED BY1: Richard Hsieh | DATE : 2017/07/13 | MOLD NO. | NA |
| SCALE:1:1 SIZE:A4 | APPROVED BY2: Richard Hsieh | DATE : 2017/07/13 | DRAW NO. | |
| | | | SHEET NO. | 2 OF 3 |

# GP Component

| REV. | ECN NO. | LOCATIONS | DESCRIPTION | DATE | DESIGN |
|---|---|---|---|---|---|
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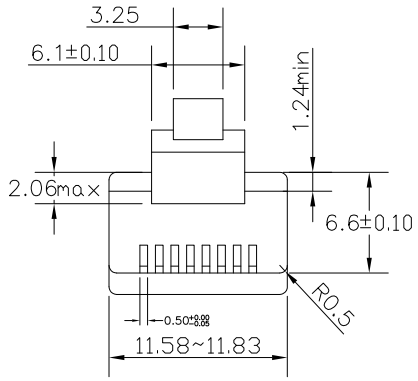
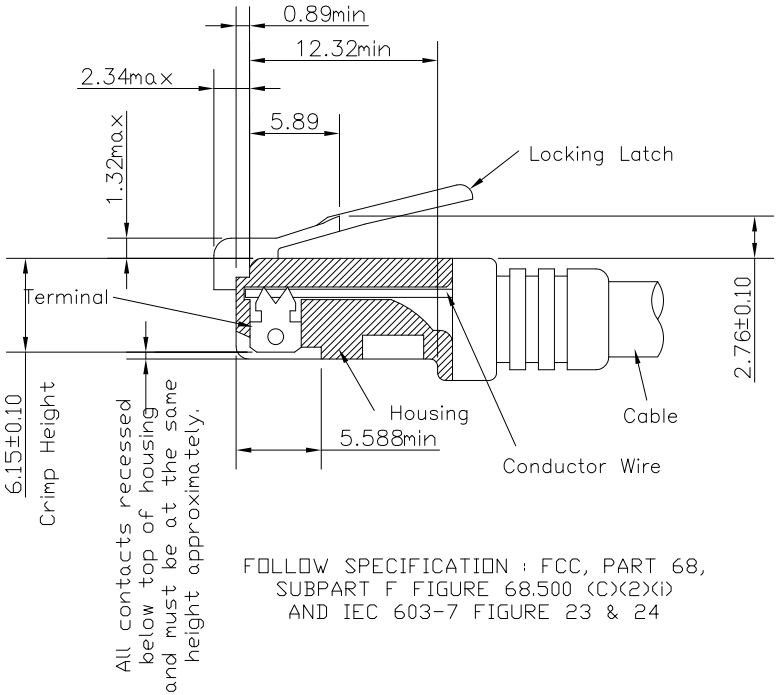
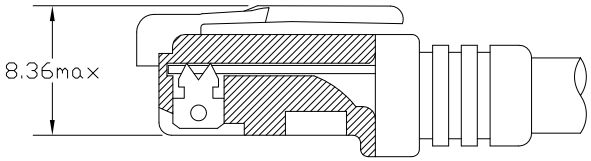



* There must be no damage to housing or locking latch.There must be no nicks or cuts in cable.
* Durability : 750 cycles generally




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 | METERIAL | REMARK |
|---|---|---|---|---|

Matrix Electronics Co.,Ltd

| | | | | |
|---|---|---|---|---|
| TOLERANCE: X. ±1 / X.X ±0.38 / X.XX ±0.25 / X.XXX ±0.13 / ANGLE: ±3° | DESIGN BY : Phebe Su | DATE : 2017/07/13 | PART NAME: RJ45,CONNECTORS,W/O LED 8P,8C 100MBPS,FILTER | |
| | CHECKED BY: Vicky Hsieh | DATE : 2017/07/13 | PART NO. | MRJF-11T417RS |
| UNIT: mm [inch] | APPROVED BY1: Richard Hsieh | DATE : 2017/07/13 | MOLD NO. | NA |
| | APPROVED BY2: Richard Hsieh | DATE : 2017/07/13 | DRAW NO. | |
| SCALE:1:1 SIZE:A4 | | | SHEET NO. | 3 OF 3 |