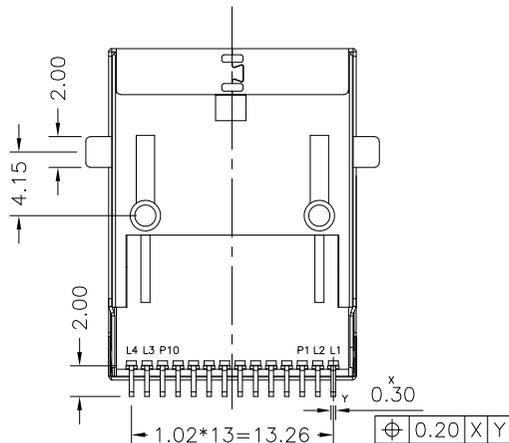
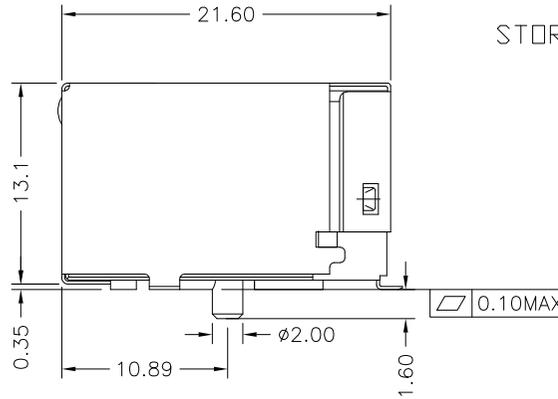
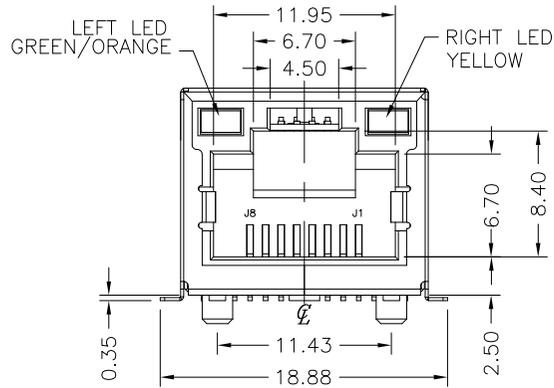


# GP Component

REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
A0			Initial	2021/09/19	Vince
A1			Add Packing	2022/09/20	Vince
A2			Modify Materials	2022/09/21	Vince

## 1. MECHANICAL DIMENSIONS :



## MATERIALS:

HOUSING: LCP UL94V-0 BLACK (HALOGEN FREE)  
 CONTACTS: COPPER, 30u" NICKEL UNDERPLATE ON ALL AREA, 100u" TIN ON TERMINATION END, GOLD PLATED ON CONTACT AREA 6U".

SHIELD: COPPER  
 NICKEL 50u" MIN PLATING.

OPERATING TEMPERATURE : 0°C~+70°C

STORAGE TEMPERATURE : -40°C~+85°C



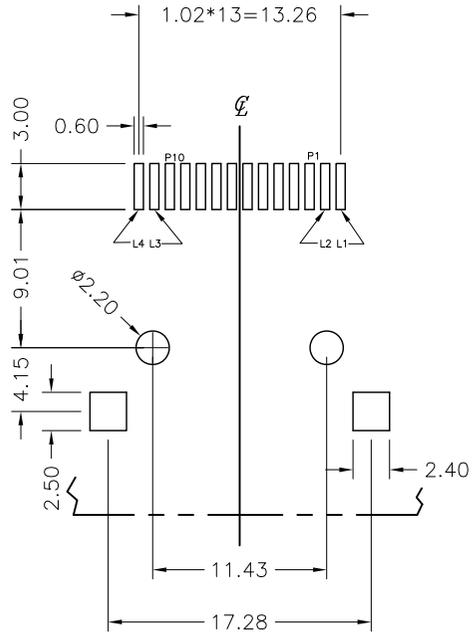
Matrix Electronics Co.,Ltd

<b>TOLERANCE:</b> X:X X:XX ±0.38 X:XXX ±0.25 X:XXX ±0.13 ANGLE: ±3°	DESIGN BY :	DATE :	PART NAME:	
	Vince Chen	2022/09/21	RJ45 1X1 W/LED TAB UP	
UNIT: mm [inch] SCALE:1:1 SIZE:A4	CHECKED BY:	DATE :	PART NO.	MRJG-11S1447HF
	Hanson Huang	2022/09/21	MOLD NO.	NA
APPROVED BY1: APPROVED BY2:	DATE :	DATE :	DRAW NO.	
	Richard Hsieh	2022/09/21	SHEET NO.	1 OF 5
	Richard Hsieh	2022/09/21		

# GP Component

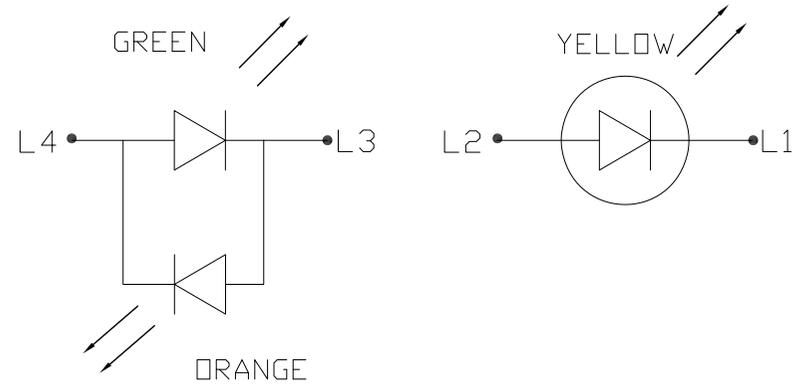
REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
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A1			Add Packing	2022/09/20	Vince
A2			Modify Materials	2022/09/21	Vince

## 2. PCB LAYOUT :



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

## 3. LED CONFIGURATION :



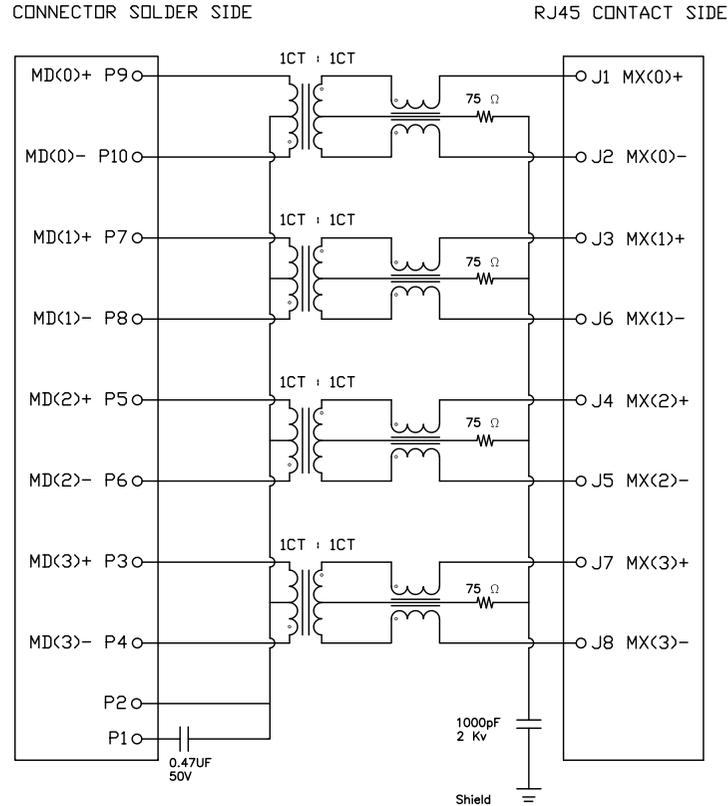
Matrix Electronics Co.,Ltd

<b>TOLERANCE:</b> X.X ±0.38 X.XX ±0.25 X.XXX ±0.13 ANGLE: ±3°	<b>DESIGN BY :</b> Vince Chen	<b>DATE :</b> 2022/09/21	<b>PART NAME:</b> RJ45 1X1 W/LED TAB UP	
	<b>CHECKED BY:</b> Hanson Huang	<b>DATE :</b> 2022/09/21	<b>PART NO.</b>	MRJG-11S1447HF
	<b>APPROVED BY1:</b> Richard Hsieh	<b>DATE :</b> 2022/09/21	<b>MOLD NO.</b>	NA
	<b>APPROVED BY2:</b> Richard Hsieh	<b>DATE :</b> 2022/09/21	<b>DRAW NO.</b>	<b>SHEET NO.</b>
<b>UNIT: mm [inch]</b> <b>SCALE:1:1 SIZE:A4</b>				2 OF 5

# GP Component

REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
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A1			Add Packing	2022/09/20	Vince
A2			Modify Materials	2022/09/21	Vince

## 4. SCHEMATIC:



### MATRIX PART NO:

Matrix-RJ45

M R J G - 1 1 S 1447 H F

RS : ROHS  
HF : Halogen Free&ROHS

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

Series Number

## 5. ELECTRICAL CHARACTERISTICS :

TEST NOTES:(25°±5°C)

- TR:(100KHz,0.1V); 100%  
PINS:(P9,P10):(J1,J2)=1:1±3%;(P7,P8):(J3,J6)=1:1±3%  
PINS:(P5,P6):(J4,J5)=1:1±3%;(P3,P4):(J7,J8)=1:1±3%
- LX:(100KHz,100mV,8mA, DC Bias) 100%  
PINS:(P9,P10),(P7,P8)=350uH MINIMUM  
PINS:(P5,P6),(P3,P4)=350uH MINIMUM
- DCR: 100%  
PINS:(J1,J2),(J3,J6),(J4,J5),(J7,J8)=1.2 MAXIMUM
- HIPOT: 100%  
PINS(P9,P10)TO(J1,J2)=1500VAC OR 2250VDC FOR 2 SECONDS  
PINS(P7,P8)TO(J3,J6)=1500VAC OR 2250VDC FOR 2 SECONDS  
PINS(P5,P6)TO(J4,J5)=1500VAC OR 2250VDC FOR 2 SECONDS  
PINS(P3,P4)TO(J7,J8)=1500VAC OR 2250VDC 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



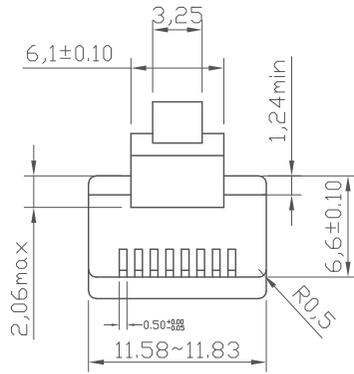
Matrix Electronics Co.,Ltd

<b>TOLERANCE:</b> X:X X:XX ±0.38 X:XXX ±0.25 ANGLE: ±3°	<b>DESIGN BY :</b> Vince Chen	<b>DATE :</b> 2022/09/21	<b>PART NAME:</b> RJ45 1X1 W/LED TAB UP	
	<b>CHECKED BY:</b> Hanson Huang	<b>DATE :</b> 2022/09/21	<b>PART NO.</b>	MRJG-11S1447HF
	<b>APPROVED BY1:</b> Richard Hsieh	<b>DATE :</b> 2022/09/21	<b>MOLD NO.</b>	NA
<b>UNIT: mm [inch]</b>	<b>APPROVED BY2:</b> Richard Hsieh	<b>DATE :</b> 2022/09/21	<b>DRAW NO.</b>	
<b>SCALE:1:1</b> <b>SIZE:A4</b>			<b>SHEET NO.</b>	3 OF 5

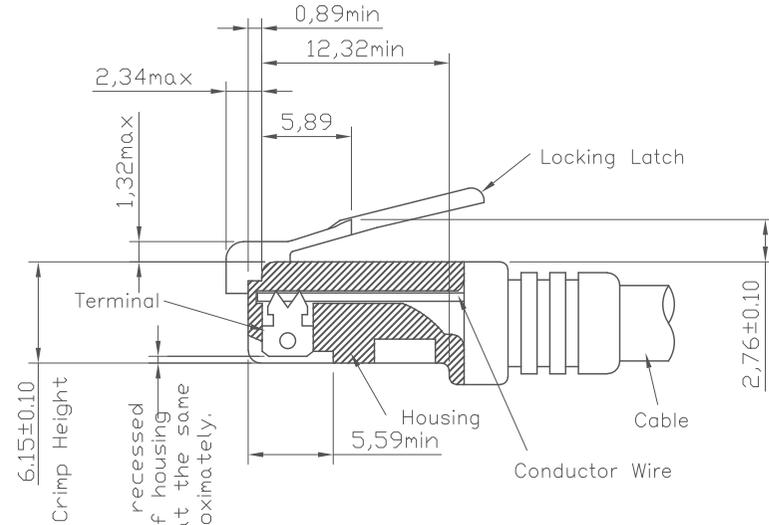
# GP Component

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A2			Modify Materials	2022/09/21	Vince

## 5. 水晶頭尺寸:



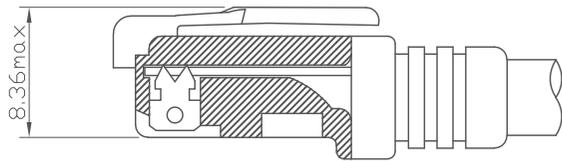
- \* There must be no damage to housing or locking latch. There must be no nicks or cuts in cable.
- \* Durability : 750 cycles generally



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)

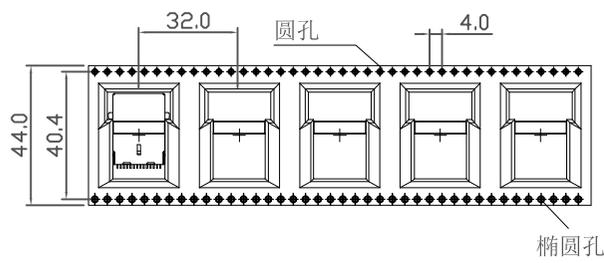


Matrix Electronics Co.,Ltd

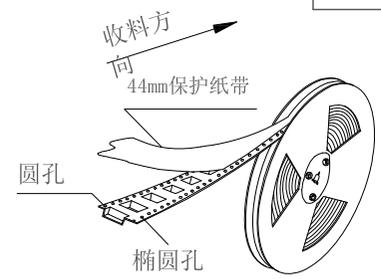
<b>TOLERANCE:</b> X.X ±0.38 X.XX ±0.25 X.XXX ±0.13 ANGLE: ±3°	<b>DESIGN BY :</b> Vince Chen	<b>DATE :</b> 2022/09/21	<b>PART NAME:</b> RJ45 1X1 W/LED TAB UP	
	<b>CHECKED BY:</b> Hanson Huang	<b>DATE :</b> 2022/09/21	<b>PART NO.</b>	MRJG-11S1447HF
	<b>APPROVED BY1:</b> Richard Hsieh	<b>DATE :</b> 2022/09/21	<b>MOLD NO.</b>	NA
	<b>APPROVED BY2:</b> Richard Hsieh	<b>DATE :</b> 2022/09/21	<b>DRAW NO.</b>	
<b>UNIT: mm [inch]</b> <b>SCALE:1:1 SIZE:A4</b>			<b>SHEET NO.</b>	4 OF 5

# GP Component

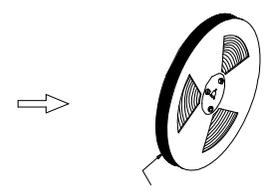
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A2			Modify Materials	2022/09/21	Vince



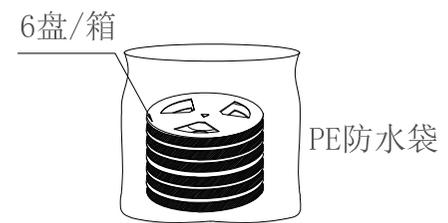
① 收料方向



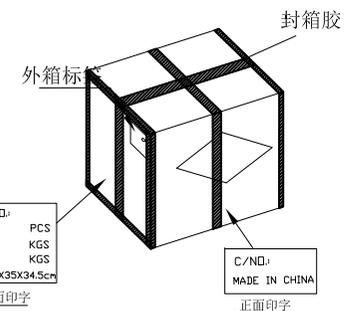
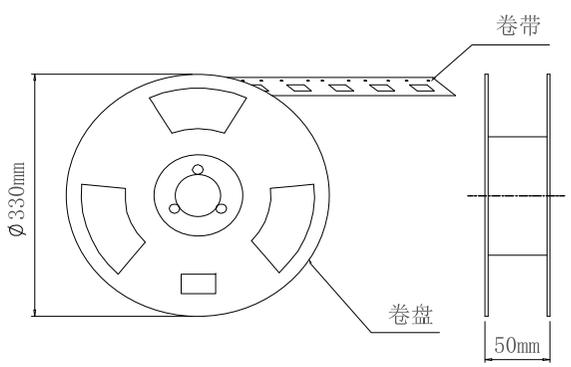
② 每盘卷带装120PCS



③ 打保护带 (PS)

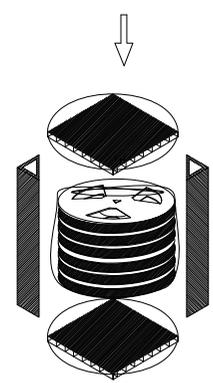


④ 包装PE袋

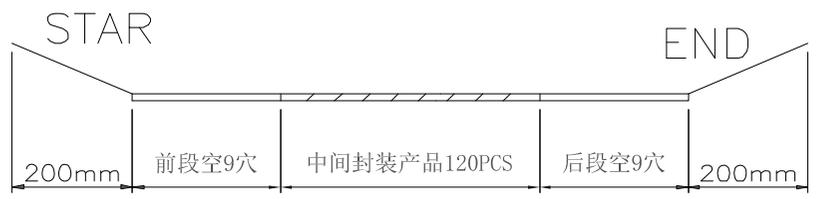


⑥ 封箱胶纸“田”字形首尾相连封箱

纸箱规格：35x35x34.5cm



⑤ 每一箱装6盘, 上下各一块纸板, 然后四个脚各放一个三角板



USER DIRECTION OF FEED

## NOTES:

1. 包装数量：720PCS箱/6卷, 120PCS/卷
2. 纸箱封盖后以封箱胶纸封箱, 并于侧面贴上出货标签

Matrix Electronics Co.,Ltd				
<b>TOLERANCE:</b> X.X ±0.38 X.XX ±0.25 X.XXX ±0.13 ANGLE: ±3°	DESIGN BY :	DATE :	PART NAME:	
	Vince Chen	2022/09/21	PACKING	
	CHECKED BY:	DATE :	PART NO.	MRJG-11S1447HF
	Hanson Huang	2022/09/21	MOLD NO.	NA
UNIT: mm [inch] SCALE:1:1 SIZE:A4	APPROVED BY1:	DATE :	DRAW NO.	
	Richard Hsieh	2022/09/21	SHEET NO.	5 OF 5
	APPROVED BY2:	DATE :		
	Richard Hsieh	2022/09/21		