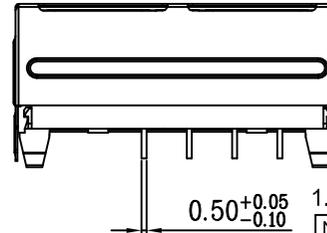
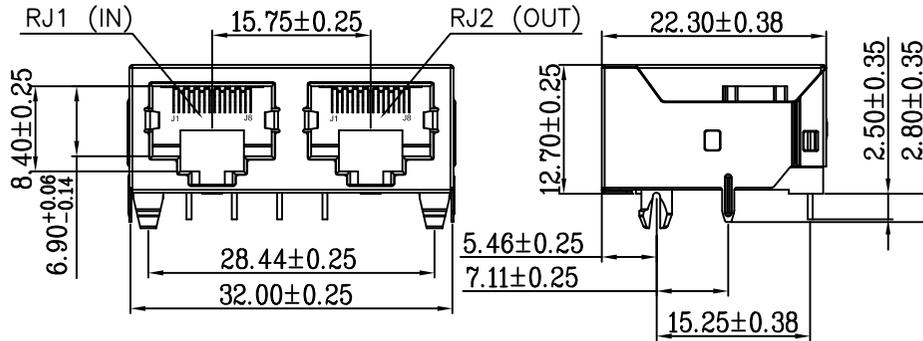
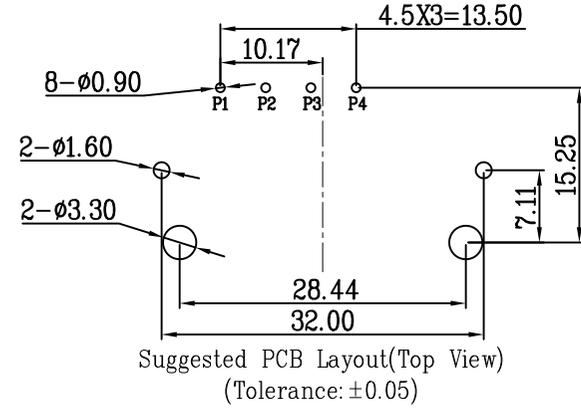
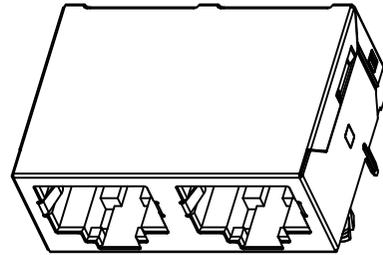
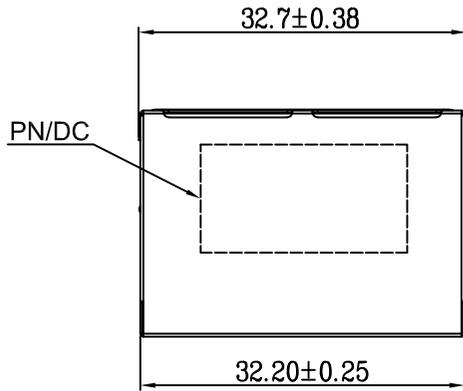


# GP Component

REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
A0			Initial	2021/11/04	Vince

## 1. MECHANICAL DIMENSIONS :



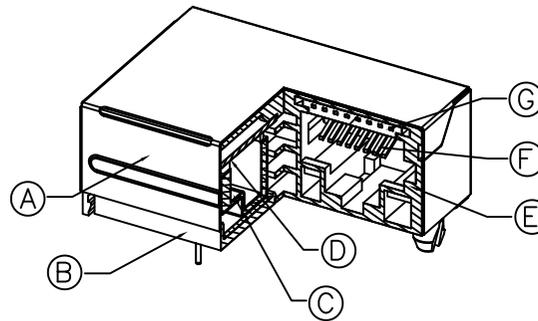
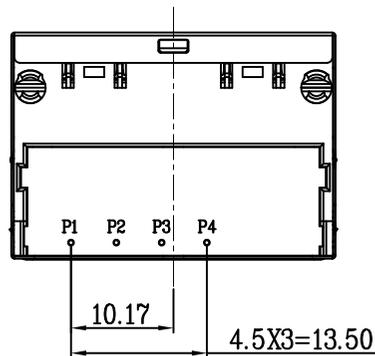
MATRIX PART NO:  
MRJ 10G-12 T 1474 T RS

Matrix-RJ45  
F:10/100  
G:10/100/1G/10G  
N:Pure Connector

RS:ROHS  
HF:Halogen Free  
Industrial Temperature

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



### 1. Material:

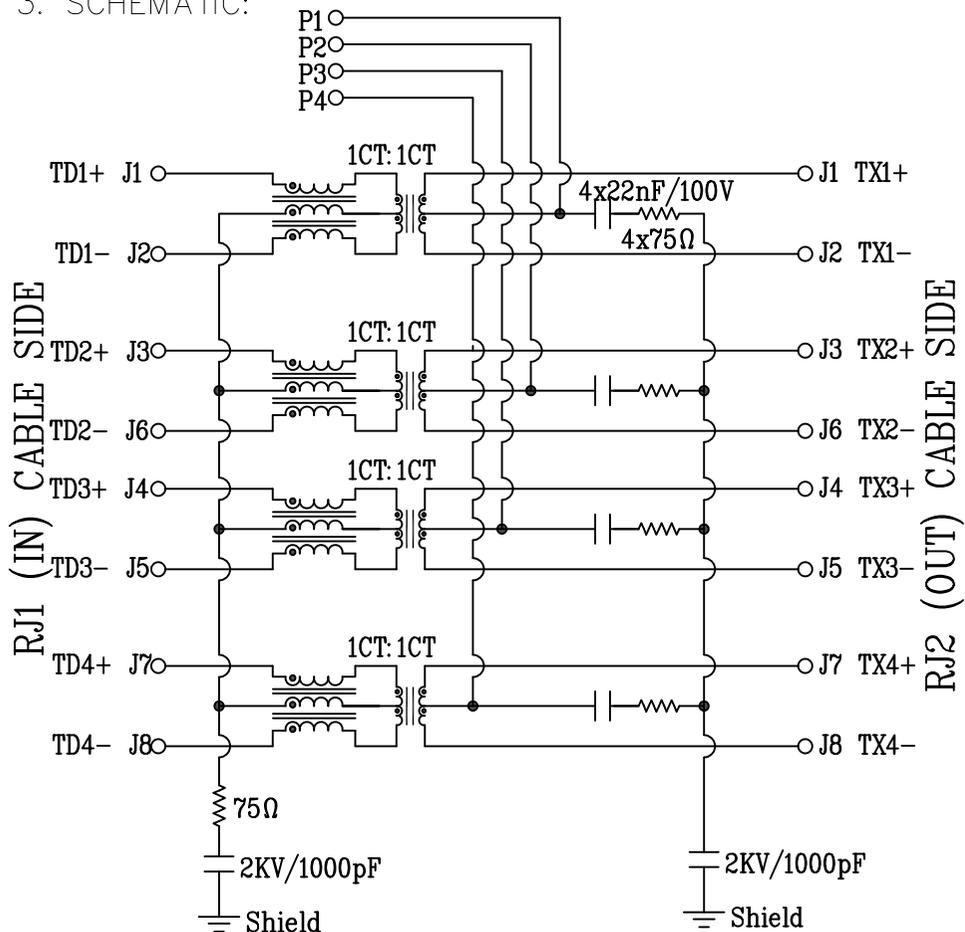
NO	DESCRIPTION	QTY	MATERIAL	PLATING & COLOR
A	METAL SHIELDING	1	C2680 T=0.20MM	NICKEL 30u" MIN.
B	COVER	1	PA46 UL94V-0	BLACK
C	MAG BASE	1	10G MAG BASE	BLACK
D	PCB	1	FR/4	GREEN
E	HOUSING	1	PA6T UL94V-0	YELLOW(123C)
F	RJ TERMINAL	16	C5210-H T=0.30MM	AU 30u"MIN ON CONTACT AREA, TIN PLATED ON SOLDER AREA 80u" MIN, OVERALL NICKEL PLATING 30u" MIN.
G	INSE MOLDING	1	PA46 UL94V-0	BLACK

**Matrix Electronics Co.,Ltd**

TOLERANCE: X X ±0.38 X XX ±0.25 X XXX ±0.13 ANGLE: ±3°	DESIGN BY : Vince Chen	DATE : 2021/11/04	PART NAME: RJ45 CONN W/O LED, 10G Base FILTER
UNIT: mm [inch] SCALE:1:1 SIZE:A4	CHECKED BY: Hanson Huang	DATE : 2021/11/04	PART NO. MRJ10G-12T1474TRS
	APPROVED BY1: Richard Hsieh	DATE : 2021/11/04	MOLD NO. NA
	APPROVED BY2: Richard Hsieh	DATE : 2021/11/04	DRAW NO. SHEET NO. 1 OF 3

REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
A0			Initial	2021/11/04	Vince

3. SCHEMATIC:



4. Electrical Specification @25°C:

- 4.1 Inductance(OCL): @100kHz,100mV,15mA DC BIAS.  
 Input(TD1+,TD1-),(TD2+,TD2-),(TD3+,TD3-),(TD4+,TD4-): 100uH min.  
 Output(TX1+,TX1-),(TX2+,TX2-),(TX3+,TX3-),(TX4+,TX4-): 100uH min.
- 4.2 Insertion loss : @1-100MHZ -0.6dB max.  
 @100-200MHZ -1.0dB max.  
 @200-300MHZ -1.5dB max.  
 @300-400MHZ -2.0dB max.  
 @400-500MHZ -3.0dB max.
- 4.3 Return loss : @1-100MHZ -20dB min.  
 @100-200MHZ -17dB min.  
 @200-300MHZ -14dB min.  
 @300-400MHZ -10dB min.  
 @400-500MHZ -8dB min.
- 4.4 Common to Common Mode Rejection:  
 @1-100MHZ -22dB min.  
 @100-300MHZ -21dB min.  
 @300-500MHZ -20dB min.
- 4.5 Cross Talk: @1-500MHZ -25dB min.
- 4.6 DC current: 1.0A MAX @57VDC continuous.
- 5. Operating and Storage Temperature:  
 5.1 Operating Temperature : -40°C to +110°C.  
 5.2 Storage Temperature : -40°C to +110°C.
- 6. Wave soldering peak temperature: 260°C.

Printing:

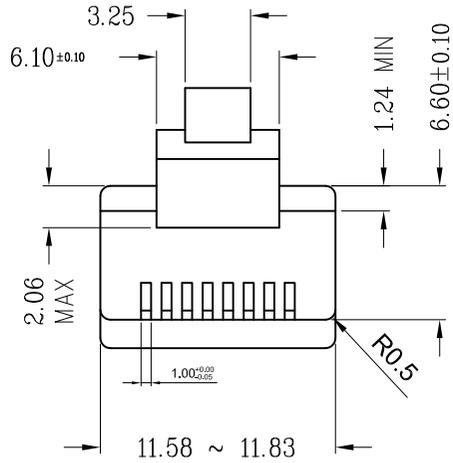
MRJ10G-12T1474TRS

E  
YYWW

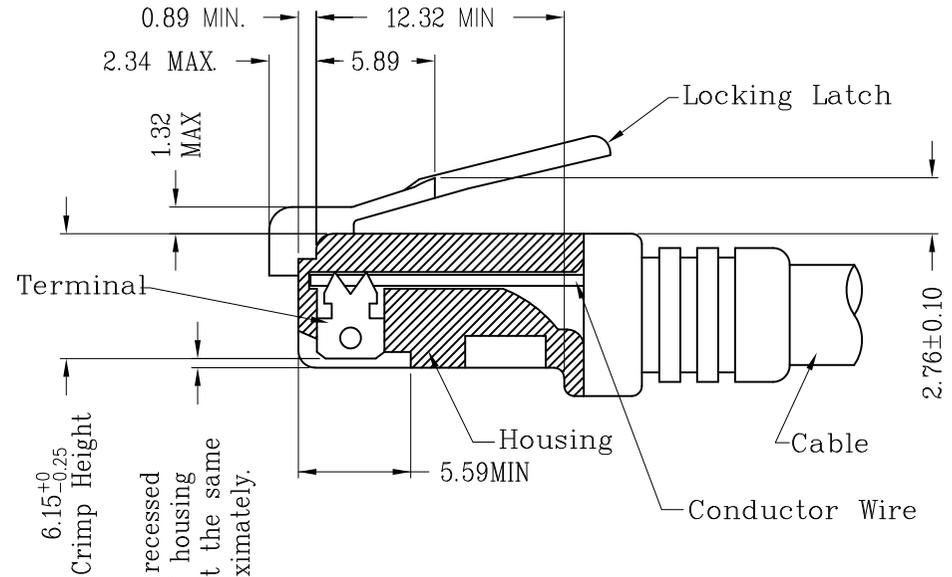
Matrix Electronics Co.,Ltd				
TOLERANCE: X.X ±0.38 X.XX ±0.25 X.XXX ±0.13 ANGLE: ±3°	DESIGN BY : Vince Chen	DATE : 2021/11/04	PART NAME: RJ45 CONN W/O LED, 10G Base FILTER	
	CHECKED BY: Hanson Huang	DATE : 2021/11/04	PART NO.	MRJ10G-12T1474TRS
UNIT: mm [inch]	APPROVED BY1: Richard Hsieh	DATE : 2021/11/04	MOLD NO.	NA
SCALE: 1:1 SIZE: A4	APPROVED BY2: Richard Hsieh	DATE : 2021/11/04	DRAW NO.	
			SHEET NO.	2 OF 3

# GP Component

REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
A0			Initial	2021/11/04	Vince



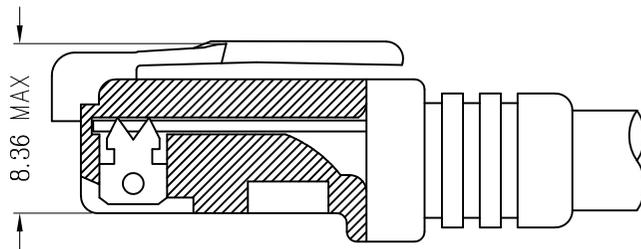
- \* There must be no damage to housing or locking latch. There must be no nicks or cuts in cable.
- \* Durability : 750 cycles generally



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)

 <b>Matrix Electronics Co.,Ltd</b>			
<b>TOLERANCE:</b> X ±0.38 XX ±0.25 XXX ±0.13 ANGLE: ±3°	<b>DESIGN BY :</b> Vince Chen	<b>DATE :</b> 2021/11/04	<b>PART NAME:</b> RJ45 CONN W/O LED, 10G Base FILTER
 <b>UNIT: mm [inch]</b>	<b>CHECKED BY:</b> Hanson Huang	<b>DATE :</b> 2021/11/04	<b>PART NO.</b> MRJ10G-12T1474TRS
<b>SCALE:1:1</b> <b>SIZE:A4</b>	<b>APPROVED BY1:</b> Richard Hsieh	<b>DATE :</b> 2021/11/04	<b>MOLD NO.</b> NA
	<b>APPROVED BY2:</b> Richard Hsieh	<b>DATE :</b> 2021/11/04	<b>DRAW NO.</b> SHEET NO. 3 OF 3