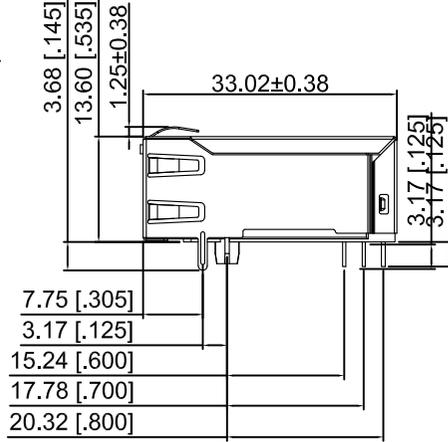
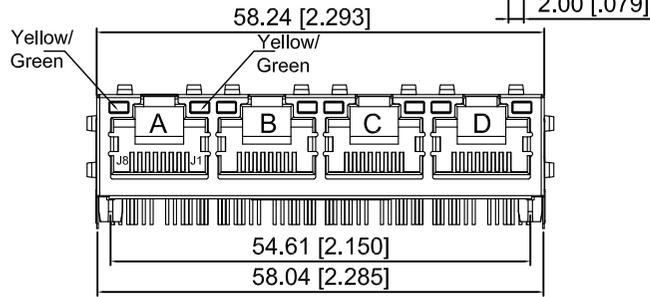
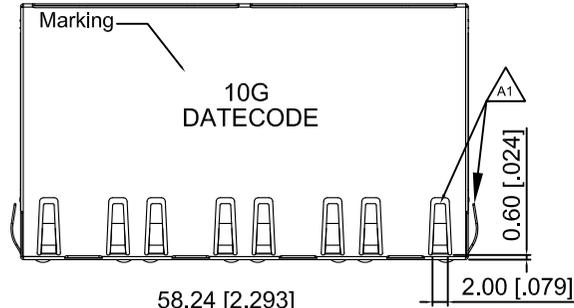


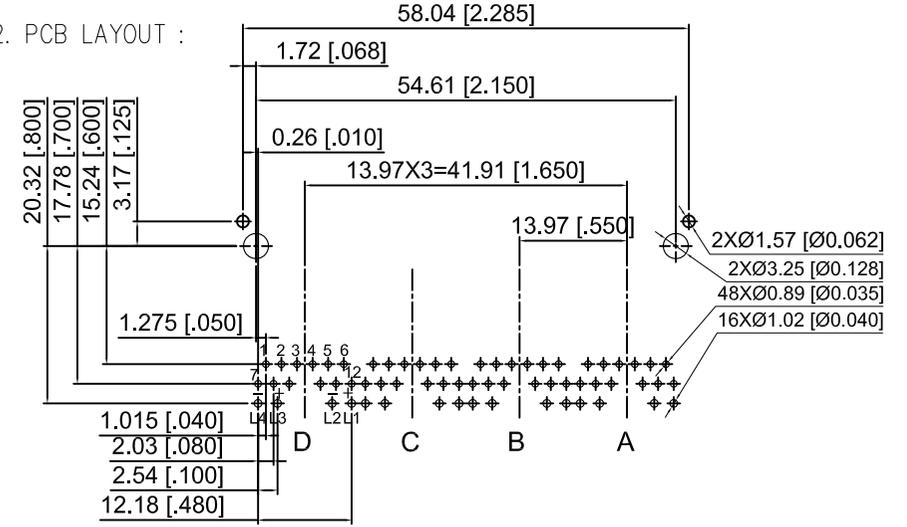
GP Component

1. MECHANICAL DIMENSIONS :

REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
A0			Initial	2022/12/15	Vince
A0.1			Modify Printing	2024/01/10	Vince
A1			Modify Shield shrapnel	2024/05/16	Vince

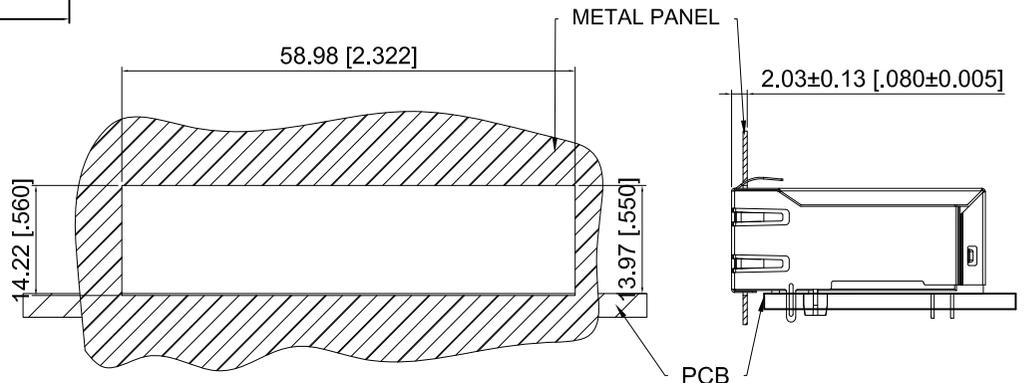
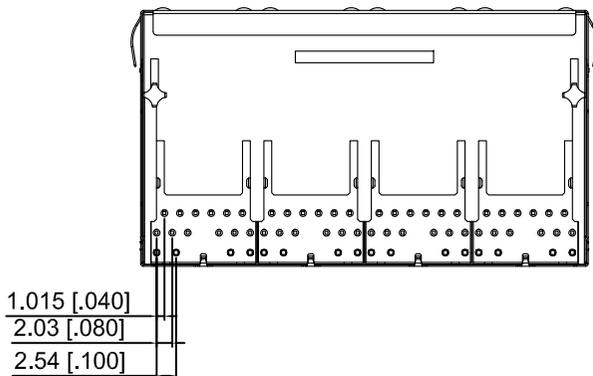


2. PCB LAYOUT :



RECOMMENDED P.C.B LAYOUT
TOP VIEW (COMPONENT SIDE)

Dimension Tolerance:
PCB LAYOUT
Tolerances:±0.05[0.002]



MATERIALS

1.HOUSING:GLASS FILLED PA46(BLACK) UL94V-0(ROHS)
2.CONTACT: PHOSPHOR BRONZE,50 MICROINCHES MIN. OVERALL DUCTILE NICKEL UNDERPLATE WITH SELECTED 30 MICROINCHES GOLD AT MATING INTERFACE
3.SHIELD:0.2mm THICKNESS WITH BRASS
4.JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 68 SUBPART F
5.THE PART IS RECOMMENDED FOR WAVE SOLDERING PROCESS PEAK SOLDERING TEMPERATURE IS 260°C MAX,10 SECS MAX.
6.OPERATING TEMPERATURE:0°C TO +70°C. STORAGE TEMPERATURE:-40°C TO +85°C.

Printing:



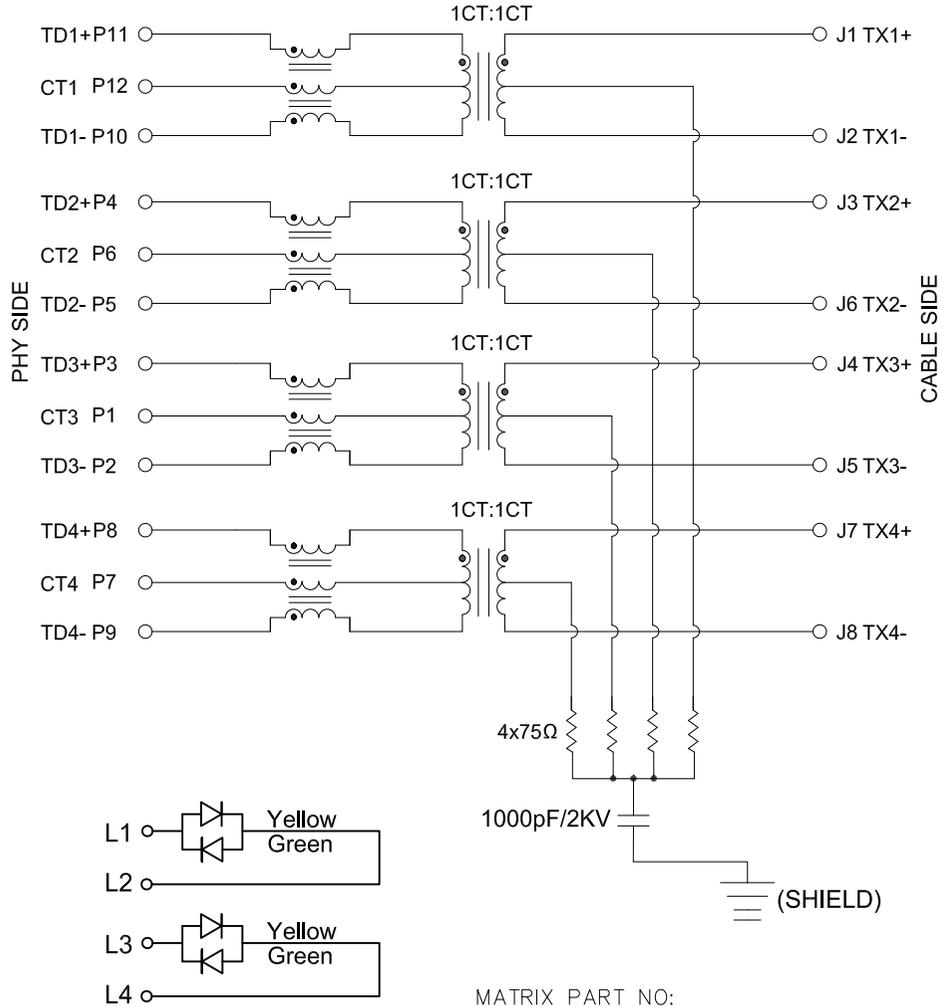
10G
YYWW

PANEL CUTOUT

Matrix Electronics Co.,Ltd			
TOLERANCE: X:X ±0.38 X:XX ±0.25 X:XXX ±0.13 ANGLE: ±3	DESIGN BY : Vince Chen	DATE : 2024/05/16	PART NAME: RJ45 1x4 Tab_Up/ThroughHole 10G Base-T W/LED
	CHECKED BY: Hanson Huang	DATE : 2024/05/16	PART NO. MRJ10G-14T1747RS
	APPROVED BY1: Richard Hsieh	DATE : 2024/05/16	MOLD NO. NA
UNIT: mm [inch] SCALE:1:1 SIZE:A4	APPROVED BY2: Richard Hsieh	DATE : 2024/05/16	DRAW NO. SHEET NO. 1 OF 3

GP Component

3. SCHEMATIC:



MATRIX PART NO:
 MRJ 10G - 14 T 1747 RS
 Matrix-RJ45
 F : 10/100
 G : 10/100/1000
 10G : 10G
 RS : ROHS
 HF : Halogen Free
 Series Number
 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

REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
A0			Initial	2022/12/15	Vince
A0.1			Modify Printing	2024/01/10	Vince
A1			Modify Shield shrapnel	2024/05/16	Vince

4. ELECTRICAL CHARACTERISTICS :

PARAMETER	SPECIFICATIONS
OPERATING TEMPERATURE	0°C To +70°C
TURNS RATIO	1:1±2%
INDUCTANCE(OCL)	120uH MIN@100KHz/100mV With 8mA DC Bias For(Channel1/2/3/4)
INSERTION LOSS	-3.0dBMAX@1-500MHz
RETURN LOSS	-22dBMIN@1-100MHz; -22+20.75xLOG(f/100)dBMIN@100-500MHz;
CROSSTALK (ADJACENT CHANNELS)	-28dBMIN@1-100MHz; -19dBMIN@100-500MHz;
COMMON MODE REJECTION RATIO	-30dBMIN@1-100MHz; -20dBMIN@100-500MHz;
COMMON MODE TO DIFFERENTIAL MODE ATTENUATION	-30dBMIN@1-250MHz; -20dBMIN@250-500MHz;
HI-POT	2250VDC@60 SECONDS(Channel1/2/3/4)

LED SPECIFICATION			
STANDARD LED	WAVELENGTH	Farward V(max)	TYP
GREEN	570nm	2.4V	2.2V
YELLOW	590nm	2.5V	2.1V

*WITH A FORWARD CURRENT OF 20mA

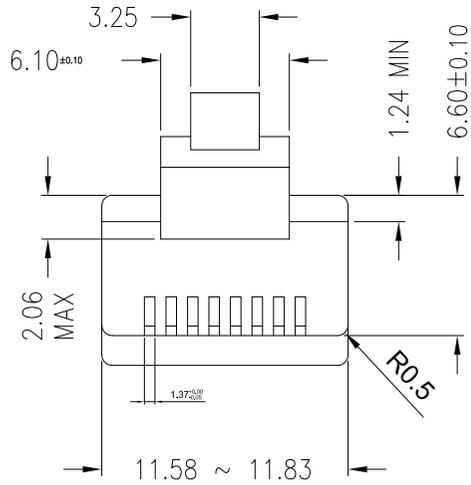


Matrix Electronics Co.,Ltd

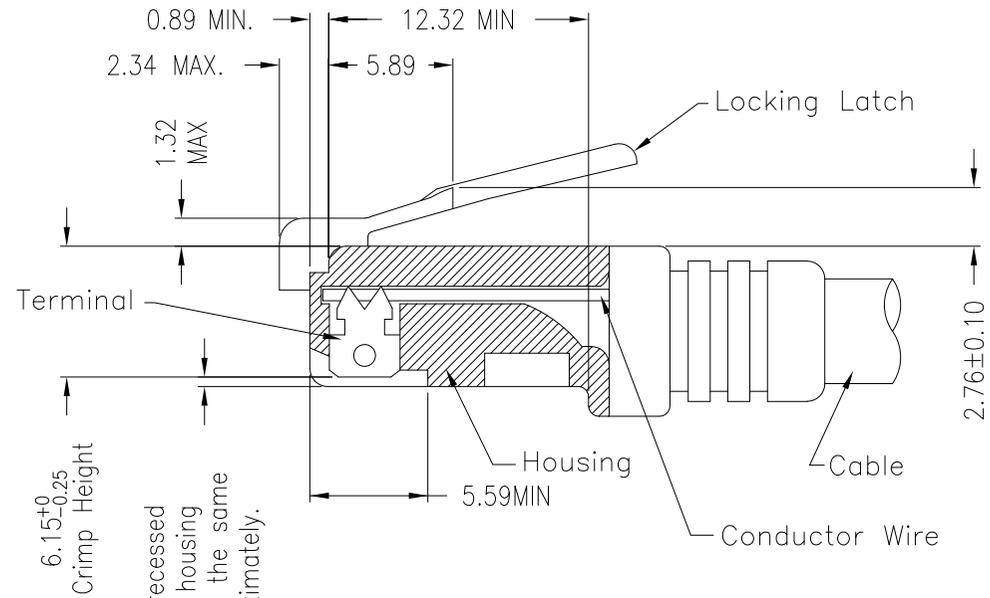
TOLERANCE: X.X ±0.38 X.XX ±0.25 X.XXX ±0.13 ANGLE: ±3	DESIGN BY : Vince Chen	DATE : 2024/05/16	PART NAME: RJ45 1x4 Tab_Up/ThroughHole 10G Base-T W/LED	
 UNIT: mm [inch] SCALE:1:1 SIZE:A4	CHECKED BY: Hanson Huang	DATE : 2024/05/16	PART NO.	MRJ10G-14T1747RS
	APPROVED BY1: Richard Hsieh	DATE : 2024/05/16	MOLD NO.	NA
	APPROVED BY2: Richard Hsieh	DATE : 2024/05/16	DRAW NO.	
			SHEET NO.	2 OF 3

GP Component

REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
A0			Initial	2022/12/15	Vince
A0.1			Modify Printing	2024/01/10	Vince
A1			Modify Shield shrapnel	2024/05/16	Vince



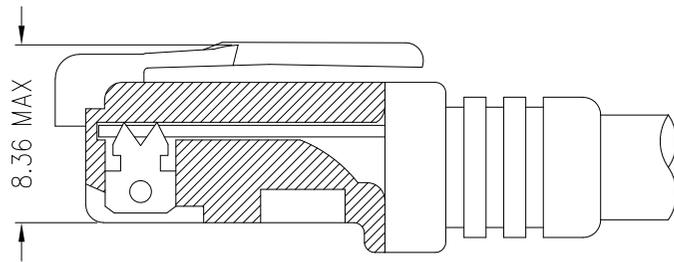
- * There must be no damage to housing or locking latch. There must be no nicks or cuts in cable.
- * Durability : 750 cycles generally



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)

 Matrix Electronics Co.,Ltd				
TOLERANCE: X:X ±0.38 X:XX ±0.25 X:XXX ±0.13 ANGLE: ±3°	DESIGN BY :	DATE :	PART NAME:	
	Vince Chen	2024/05/16	RJ45 1x4 Tab_Up/ThroughHole 10G Base-T W/LED	
  UNIT: mm [inch] SCALE:1:1 SIZE:A4	CHECKED BY:	DATE :	PART NO.	MRJ10G-14T1747RS
	Hanson Huang	2024/05/16	MOLD NO.	NA
	APPROVED BY1:	DATE :	DRAW NO.	
Richard Hsieh	2024/05/16	SHEET NO.	3 OF 3	
APPROVED BY2:	DATE :			
Richard Hsieh	2024/05/16			