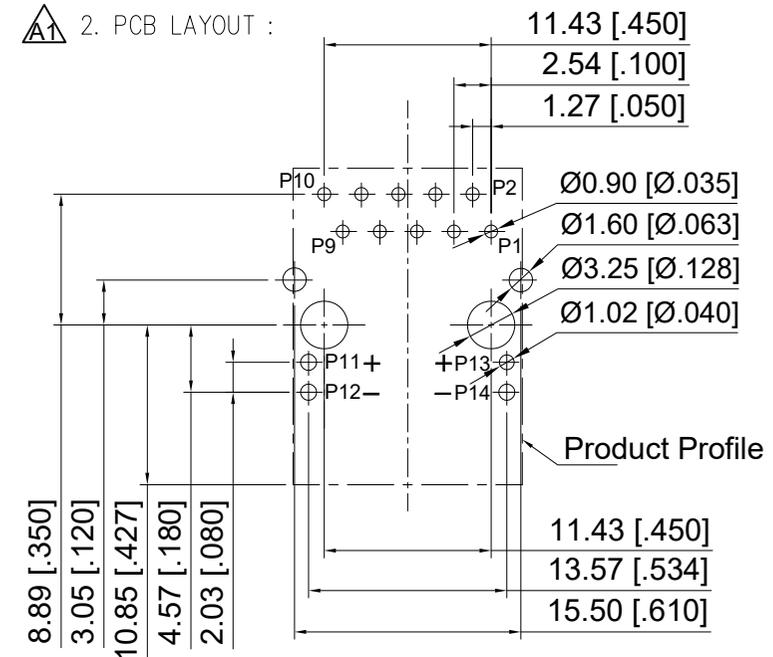
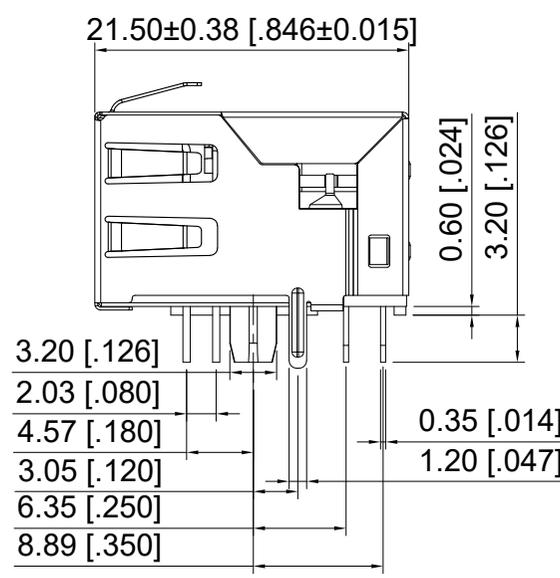
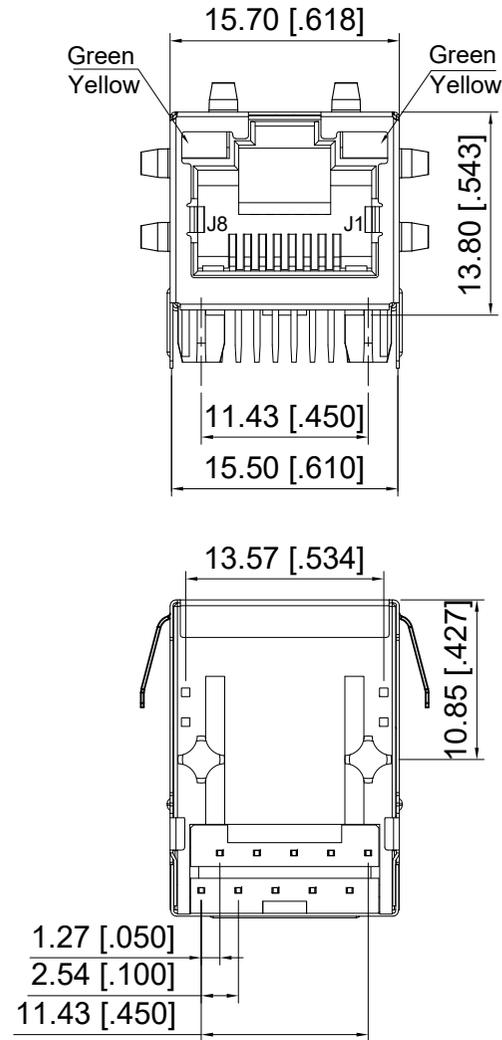


GP Component

REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
A0			Initial	2024/06/25	Vince
A1			Modify Schematic & Pcb Layout	2025/06/27	Vince

1. MECHANICAL DIMENSIONS :



MATRIX PART NO: MRJ 10G - 11 T 2022 T RS

Matrix-RJ45

F : 10/100
G : 10/100/1000
10G : 10G

11:1X1 ; 21:2X1
12:1X2 ; 22:2X2
14:1X4 ; 24:2X4
16:1X6 ; 26:2X6
18:1X8 ; 28:2X8
1U:RJ+USB

RS : ROHS
HF : Halogen Free
Industrial Temperature

Series Number

S : SMD
T : THT

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

Dimensions Tolerance: All PCB LAYOUT Tolerances:±0.05[.002]

Printing: MATRIX MRJ10G-11T2022TRS YYWW

MATERIALS

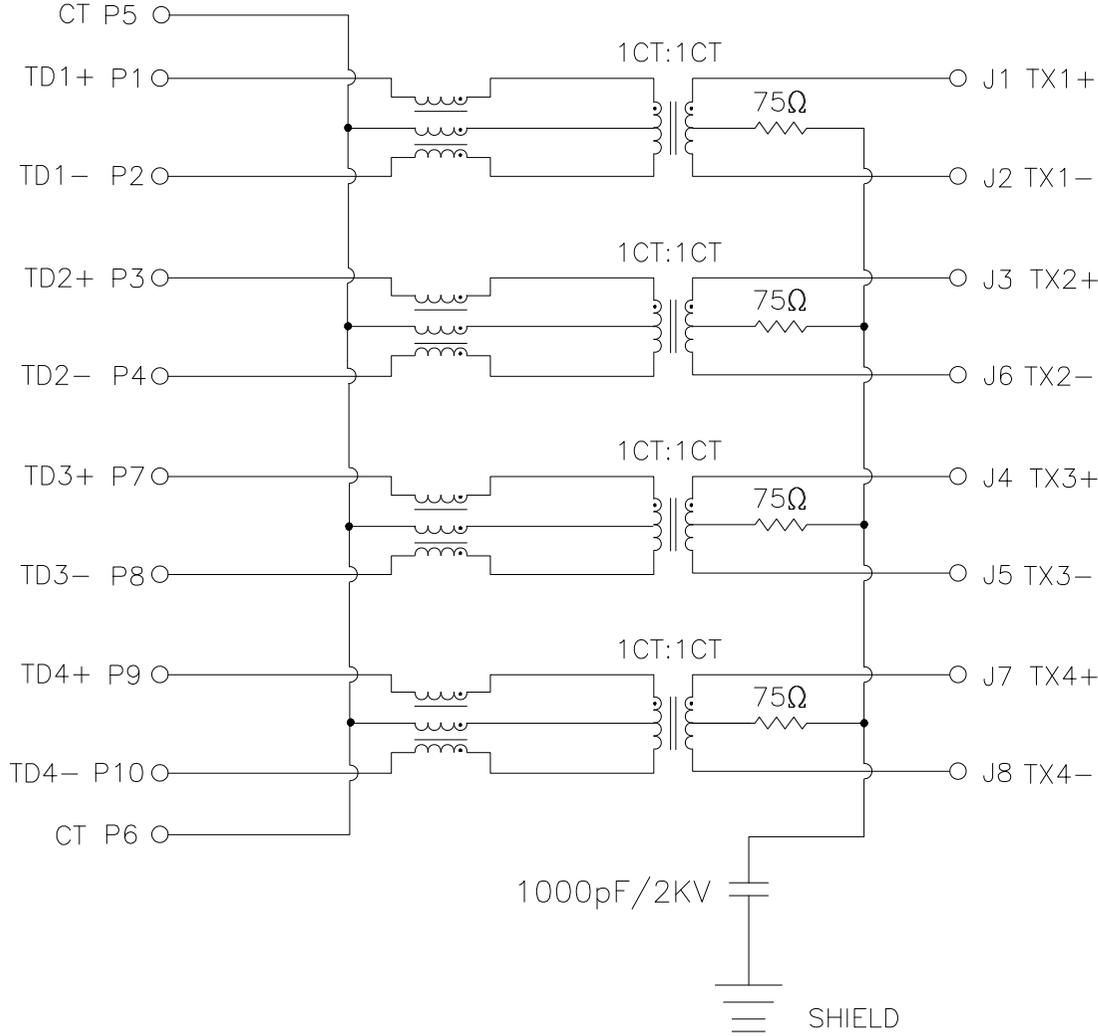
- HOUSING:GLASS FILLED PA46(BLACK) UL94V-0(RoHS)
- CONTACT: PHOSPHOR BRONZE,50 MICRINCHES MIN. OVERALL DUCTILE NICKEL UNDERPLATE WITH SELECTED 30 MICRINCHES GOLD AT MATING INTERFACE
- SHIELD:0.2mm THICKNESS WITH BRASS.
- JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 68 SUBPART F
- THE PART IS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

Matrix Electronics Co.,Ltd			
TOLERANCE: X X.X X.XX ±0.38 X.XXX ±0.25 X.XXX ±0.13 ANGLE: ±3°	DESIGN BY : Vince Chen	DATE : 2025/06/27	PART NAME: RJ45 1X1 10G BASE DIP TAB UP W/LED & SHELL
 UNIT: mm [inch] SCALE:1:1 SIZE:A4	CHECKED BY: Hanson Huang	DATE : 2025/06/27	PART NO. MRJ10G-11T2022TRS
	APPROVED BY1: Richard Hsieh	DATE : 2025/06/27	MOLD NO. NA
	APPROVED BY2: Richard Hsieh	DATE : 2025/06/27	DRAW NO.
			SHEET NO. 1 OF 3

GP Component

REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
A0			Initial	2024/06/25	Vince
A1			Modify Schematic & Pcb Layout	2025/06/27	Vince

3. SCHEMATIC:

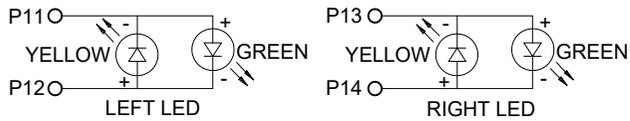


PARAMETER	SPECIFICATIONS
OPERATING TEMPERATURE	-40°C TO +85°C.
TURNS RATIO	1:1±2%
INDUCTANCE(OCL)	120uH MIN@100KHz/100mV With 8mA DC Bias For(Channel1/2/3/4)
INSERTION LOSS	-3.0dBMAX@1-500MHz
RETURN LOSS	-20dBMIN@1-100MHz; -20+20.75xLOG(f/100)dBMIN@100-500MHz;
CROSSTALK (ADJACENT CHANNELS)	-28dBMIN@1-100MHz; -17dBMIN@100-500MHz;
COMMON MODE REJECTION RATIO	-30dBMIN@1-100MHz; -20dBMIN@100-500MHz;
COMMON MODE TO DIFFERENTIAL MODE ATTENUATION	-30dBMIN@1-100MHz; -20dBMIN@100-500MHz;
HI-POT	2250VDC@60 SECONDS(Channel1/2/3/4)

LED SPECIFICATION

STANDARD LED	WAVELENGTH	Forward V(max)	TYP
GREEN	565nm	2.4V	2.2V
YELLOW	585nm	2.5V	2.1V

*WITH A FORWARD CURRENT OF 20mA

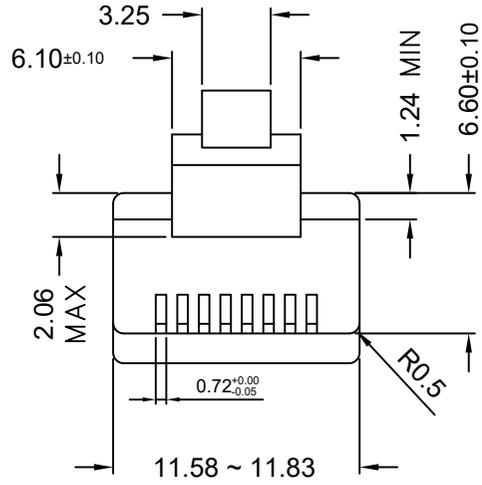


Matrix Electronics Co.,Ltd

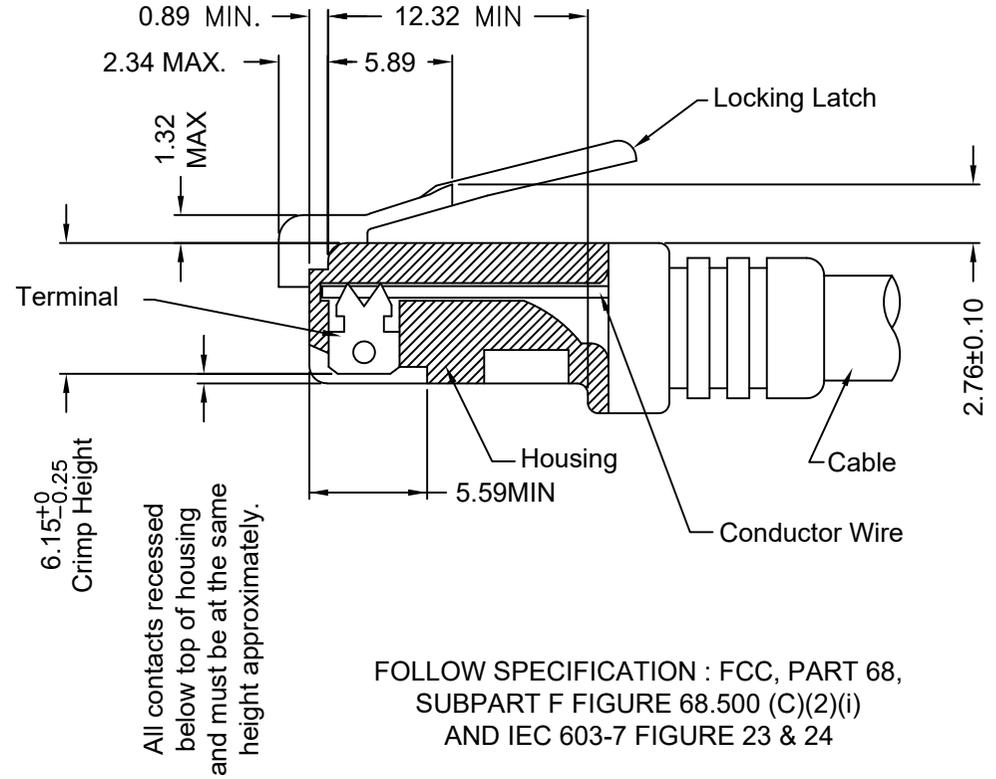
TOLERANCE: X X.X ±0.38 X.XX ±0.25 X.XXX ±0.13 ANGLE: ±3°	DESIGN BY : Vince Chen	DATE : 2025/06/27	PART NAME: RJ45 1X1 10G BASE DIP TAB UP W/LED&SHELL	
	CHECKED BY: Hanson Huang	DATE : 2025/06/27	PART NO.	MRJ10G-11T2022TRS
 UNIT: mm [inch] SCALE:1:1 SIZE:A4	APPROVED BY1: Richard Hsieh	DATE : 2025/06/27	MOLD NO.	NA
	APPROVED BY2: Richard Hsieh	DATE : 2025/06/27	DRAW NO.	
			SHEET NO.	2 OF 3

GP Component

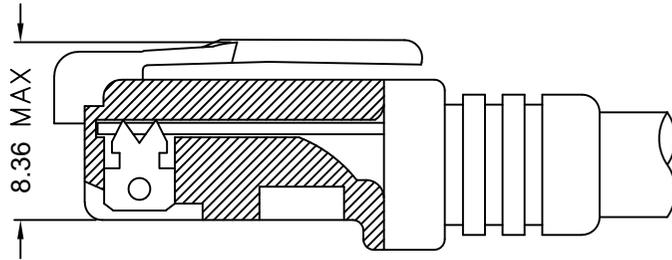
REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
A0			Initial	2024/06/25	Vince
A1			Modify Schematic & Pcb Layout	2025/06/27	Vince



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



STANDARD MODULAR PLUG ASSEMBLY



FOLLOW SPECIFICATION : FCC, PART 68, SUBPART F FIGURE 68.500 (C)(2)(ii)

 Matrix Electronics Co.,Ltd				
TOLERANCE: X X.X ±0.38 X.XX ±0.25 X.XXX ±0.13 ANGLE: ±3°	DESIGN BY :	DATE :	PART NAME:	
	Vince Chen	2025/06/27	RJ45 1X1 10G BASE DIP TAB UP W/LED&SHELL	
  UNIT: mm [inch] SCALE:1:1 SIZE:A4	CHECKED BY:	DATE :	PART NO.	MRJ10G-11T2022TRS
	Hanson Huang	2025/06/27	MOLD NO.	NA
	APPROVED BY1:	DATE :	DRAW NO.	
Richard Hsieh	2025/06/27	SHEET NO.	3 OF 3	
APPROVED BY2:	DATE :			
Richard Hsieh	2025/06/27			