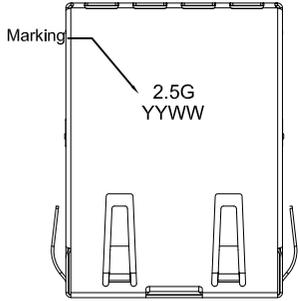


GP Component

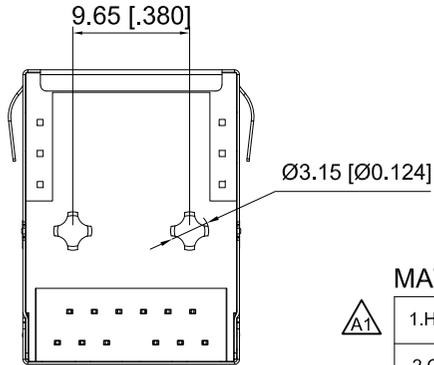
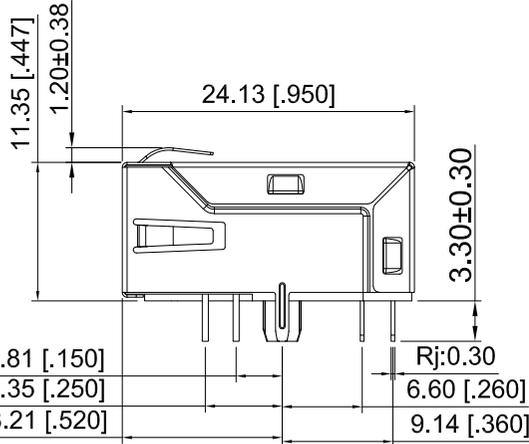
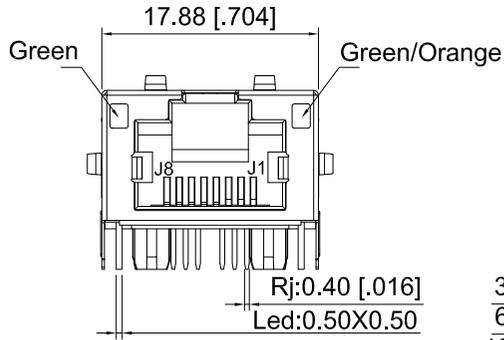
1. MECHANICAL DIMENSIONS :

GoldPlating	Option
1.8μ"	<input type="checkbox"/>
3μ"	<input type="checkbox"/>
6μ"	<input type="checkbox"/>
15μ"	<input type="checkbox"/>
30μ"	<input checked="" type="checkbox"/>
50μ"	<input type="checkbox"/>

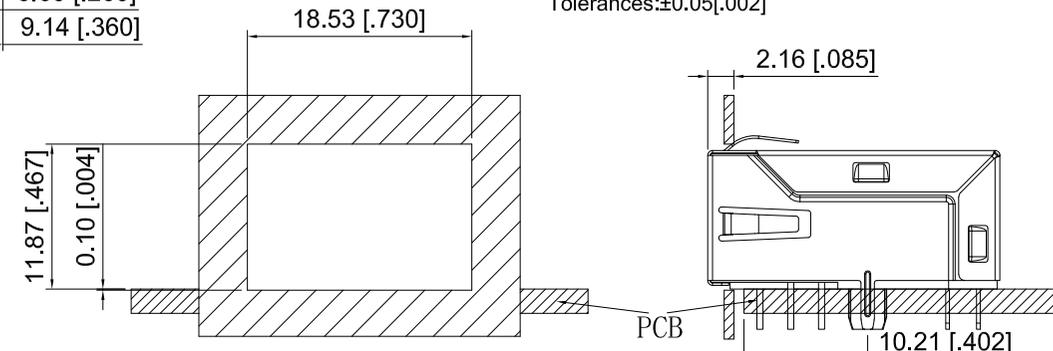
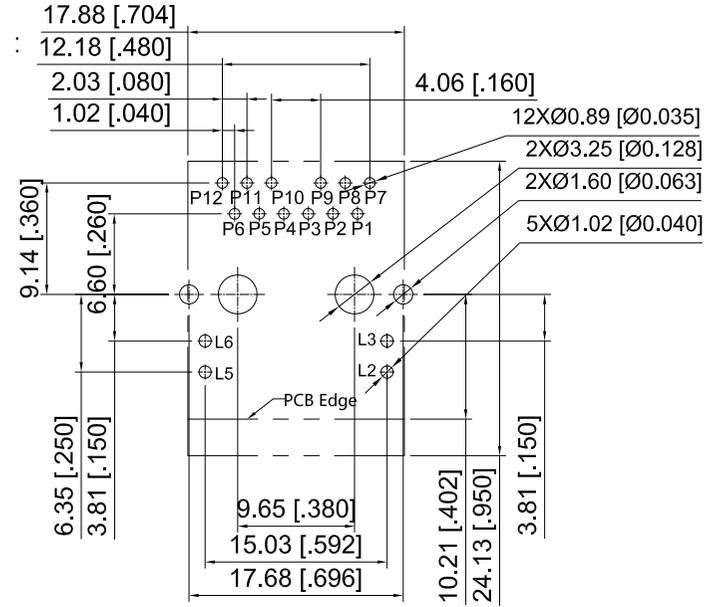


Printing:

2.5G
YYWW



2. PCB LAYOUT :



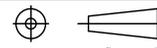
MATERIALS



- HOUSING: GLASS FILLED LCP (BLACK) UL94V-0 (ROHS)
- CONTACT: PHOSPHOR BRONZE .50 MICRONS MIN. OVERALL DUCTILE NICKEL UNDERPLATE WITH SELECTED 30 MICRONS 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 265±5°C, 10 SECS.
- OPERATING TEMPERATURE: -40°C TO +85°C.
STORAGE TEMPERATURE: -40°C TO +85°C.

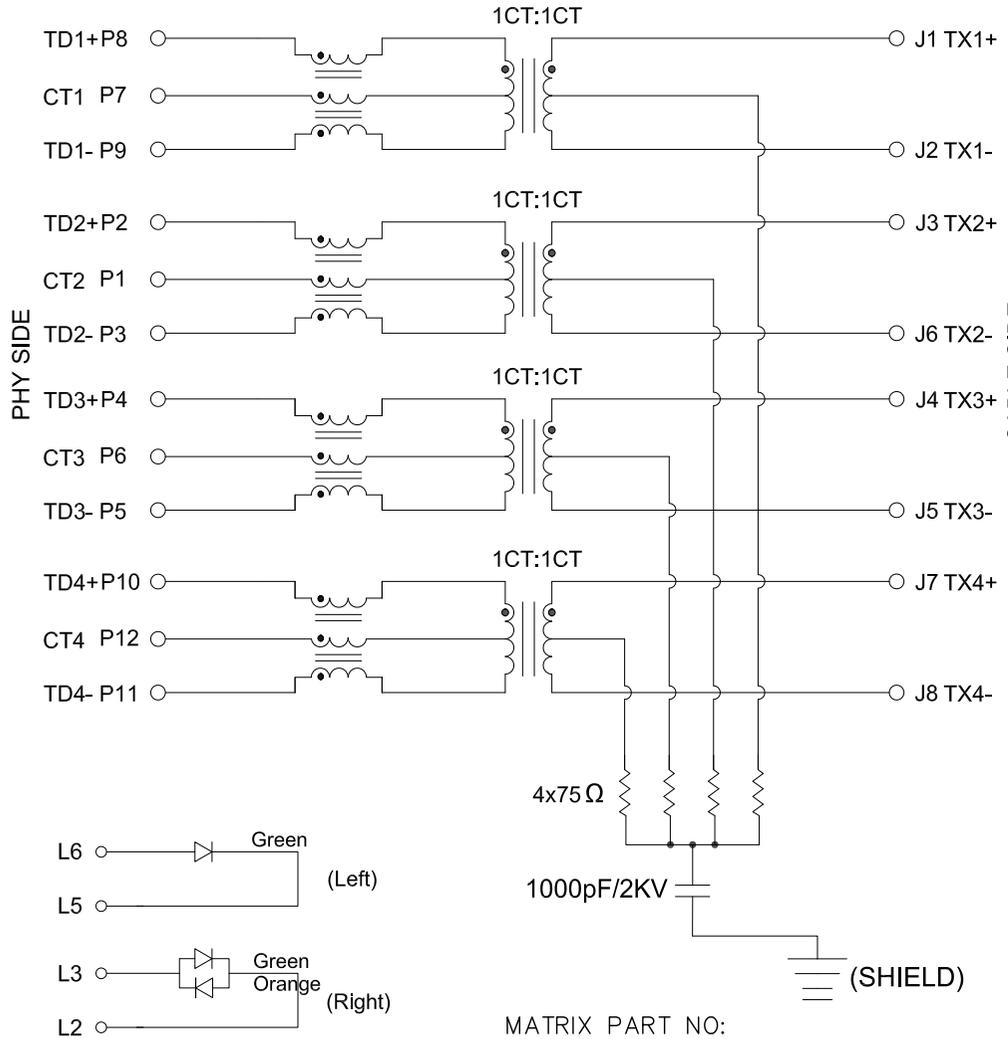


Matrix Electronics Co., Ltd

TOLERANCE: X X ±0.38 X XX ±0.25 X XXX ±0.13 ANGLE: ±3°	DESIGN BY :	DATE :	PART NAME:	
	Vince Chen	2024/02/19	RJ45 CONN W/ LED, 2.5G Base FILTER	
 UNIT: mm [inch] SCALE: 1:1 SIZE: A4	CHECKED BY:	DATE :	PART NO.	MRJ2G-11T1766TRS
	Hanson Huang	2024/02/19		
	APPROVED BY1:	DATE :	MOLD NO.	NA
	Richard Hsieh	2024/02/19		
	APPROVED BY2:	DATE :	DRAW NO.	
	Richard Hsieh	2024/02/19	SHEET NO.	1 OF 3

GP Component

3. SCHEMATIC:



MATRIX PART NO:
MRJ 2G-11 T 1766 T RS
 Matrix-RJ45
 F:10/100
 G:10/100/1G/2.5G
 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
 T: THT
 S:SMD
 RS:ROHS
 HF:Halogen Free
 Industrial Temperature
 Series Number

4. Electrical Specification @25°C:

PARAMETER	SPECIFICATIONS
OPERATING TEMPERATURE	-40°C To +85°C
TURNS RATIO	1:1±2%
OPEN CIRCUIT INDUCTANCE(OCL)	180uH MIN@100KHz/100mV With 8mA DC Bias For(CHANNEL1,2,3,4)
INSERTION LOSS(IL)	-1.0dB MAX@1MHz-50MHz; -1.5dB MAX@50MHz-125MHz;
RETURN LOSS(RL) (Z out=100 OHM)	-18dB MIN@1MHz-40MHz; -18+15LOG (f/40MHz)dB MIN@40MHz-250MHz;
CROSSTALK (ADJACENT CHANNELS)	-35dB MIN@1MHz-40MHz; -35+15LOG (f/40MHz)dB MIN@40MHz-125MHz;
COMMON MODE REJECTION RATIO(CMRR)	-30dB MIN@1MHz-200MHz;
COMMON TO DIFFERENTIAL MODE REJECTION(REF)	-35dB MIN@1MHz-125MHz;
HI-POT	2250 VDC@60 SECONDS

LED SPECIFICATION			
STANDARD LED	WAVELENGTH	Forward V(max)	TYP
GREEN	570nm	2.4V	2.2V
ORANGE	605nm	2.5V	2.1V

*WITH A FORWARD CURRENT OF 20mA

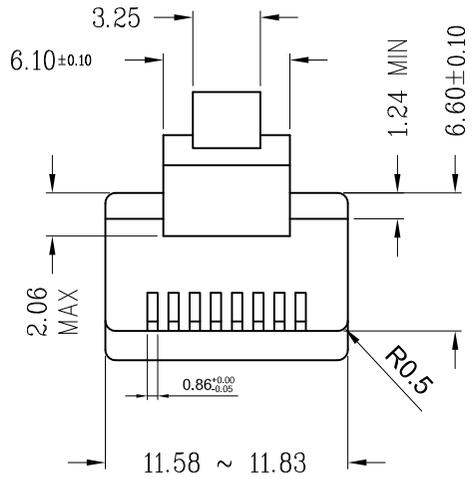


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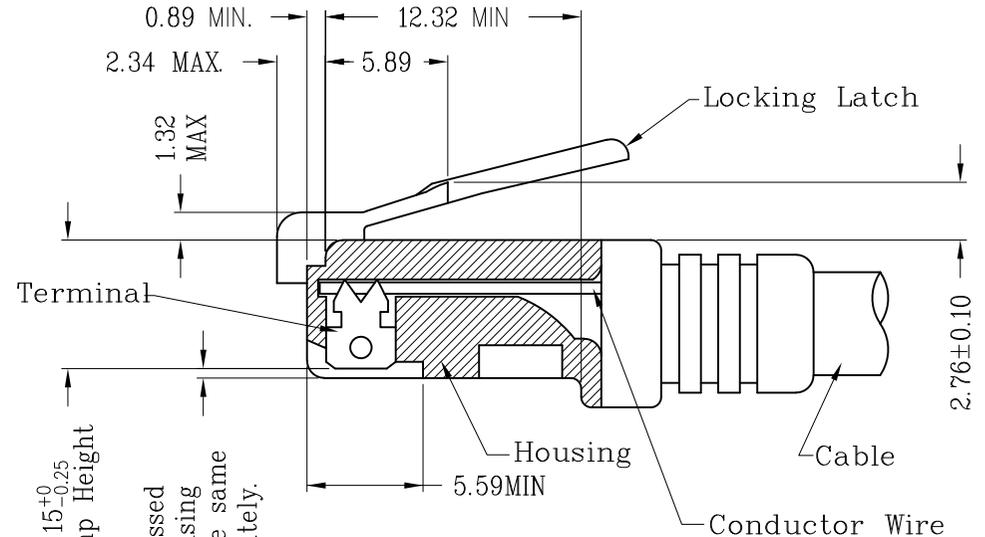
TOLERANCE: X X X ±0.38 X XX ±0.25 X XXX ±0.13 ANGLE: ±3°	DESIGN BY : Vince Chen	DATE : 2024/02/19	PART NAME: RJ45 CONN W/ LED, 2.5G Base FILTER	
 UNIT: mm [inch] SCALE:1:1 SIZE:A4	CHECKED BY: Hanson Huang	DATE : 2024/02/19	PART NO.	MRJ2G-11T1766TRS
	APPROVED BY1: Richard Hsieh	DATE : 2024/02/19	MOLD NO.	NA
	APPROVED BY2: Richard Hsieh	DATE : 2024/02/19	DRAW NO.	
			SHEET NO.	2 OF 3

GP Component

REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
A0			Initial	2022/12/28	Vince
A0.1			Modify Led Mark	2023/12/29	Vince
A1			Modify Materials	2024/02/19	Vince

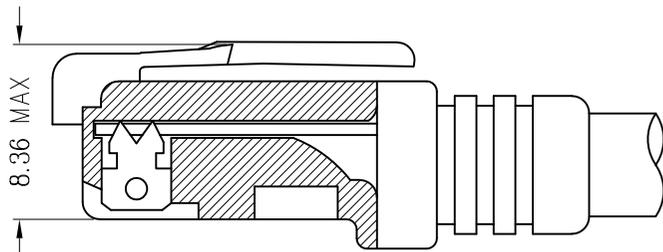


- * There must be no damage to housing or locking latch. There must be no nicks or cuts in cable.
- * Durability : 750 cycles generally



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



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

STANDARD MODULAR PLUG ASSEMBLY

 Matrix Electronics Co.,Ltd				
TOLERANCE: X ±0.38 XX ±0.25 XXX ±0.13 ANGLE: ±3°	DESIGN BY :	DATE :	PART NAME:	
	Vince Chen	2024/02/19	RJ45 CONN W/ LED, 2.5G Base FILTER	
 UNIT: mm [inch] SCALE:1:1 SIZE:A4	CHECKED BY:	DATE :	PART NO.	MRJ2G-11T1766TRS
	Hanson Huang	2024/02/19	MOLD NO.	NA
 UNIT: mm [inch] SCALE:1:1 SIZE:A4	APPROVED BY1:	DATE :	DRAW NO.	
	Richard Hsieh	2024/02/19	SHEET NO.	3 OF 3
	APPROVED BY2:	DATE :		
	Richard Hsieh	2024/02/19		