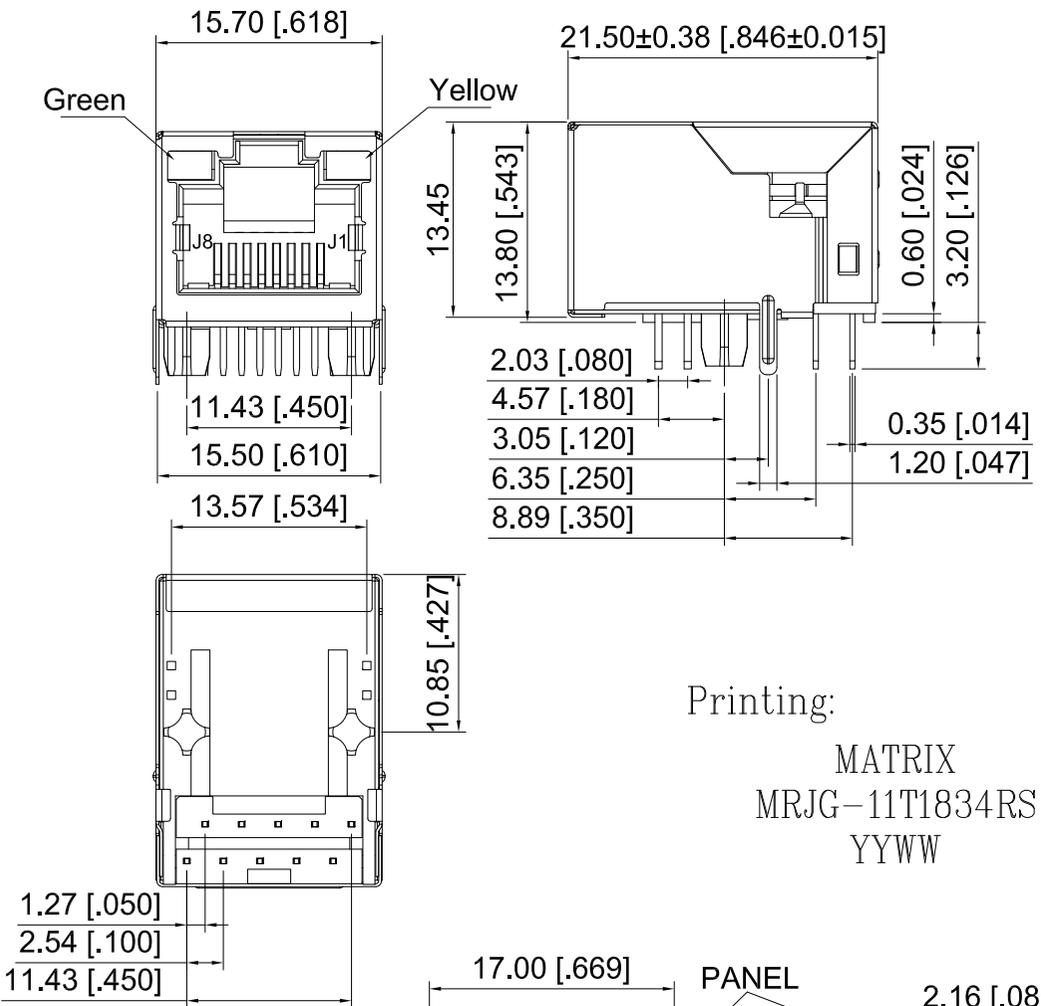


GP Component

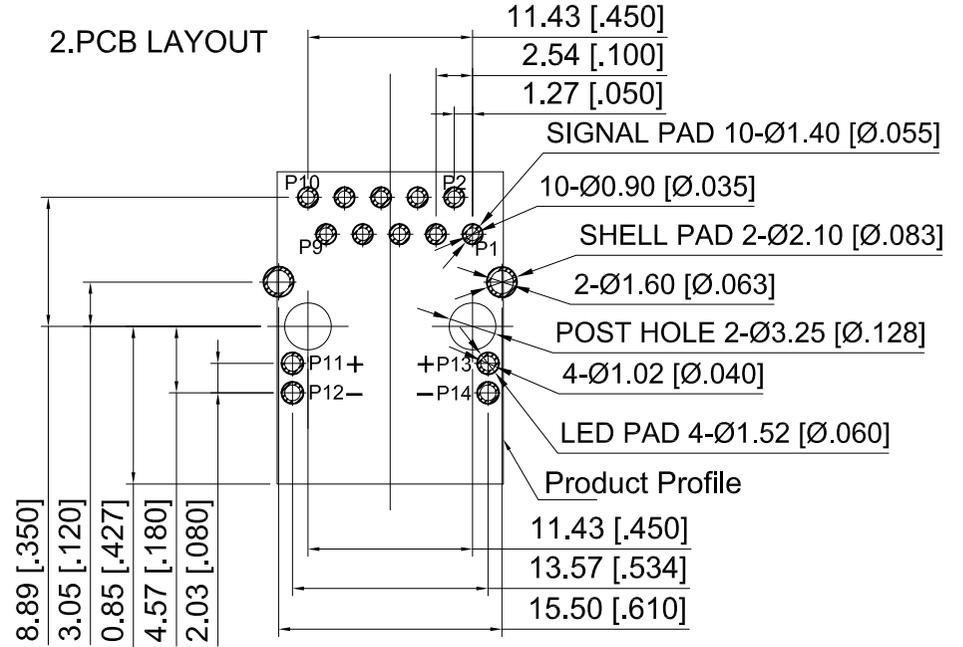
REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
A0			Initial	2023/04/24	Vince
A0.1			Add Pcb Size	2024/11/14	Vince

1. MECHANICAL



Printing:
 MATRIX
 MRJG-11T1834RS
 YYWW

2. PCB LAYOUT



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

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

MATERIALS

1.HOUSING:GLASS FILLED PA46(BLACK) UL94V-0(RoHS)
2.CONTACT: PHOSPHOR BRONZE,50 MICROINCHES MIN. OVERALL DUCTILE NICKEL UNDERPLATE WITH SELECTED 50u" 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.



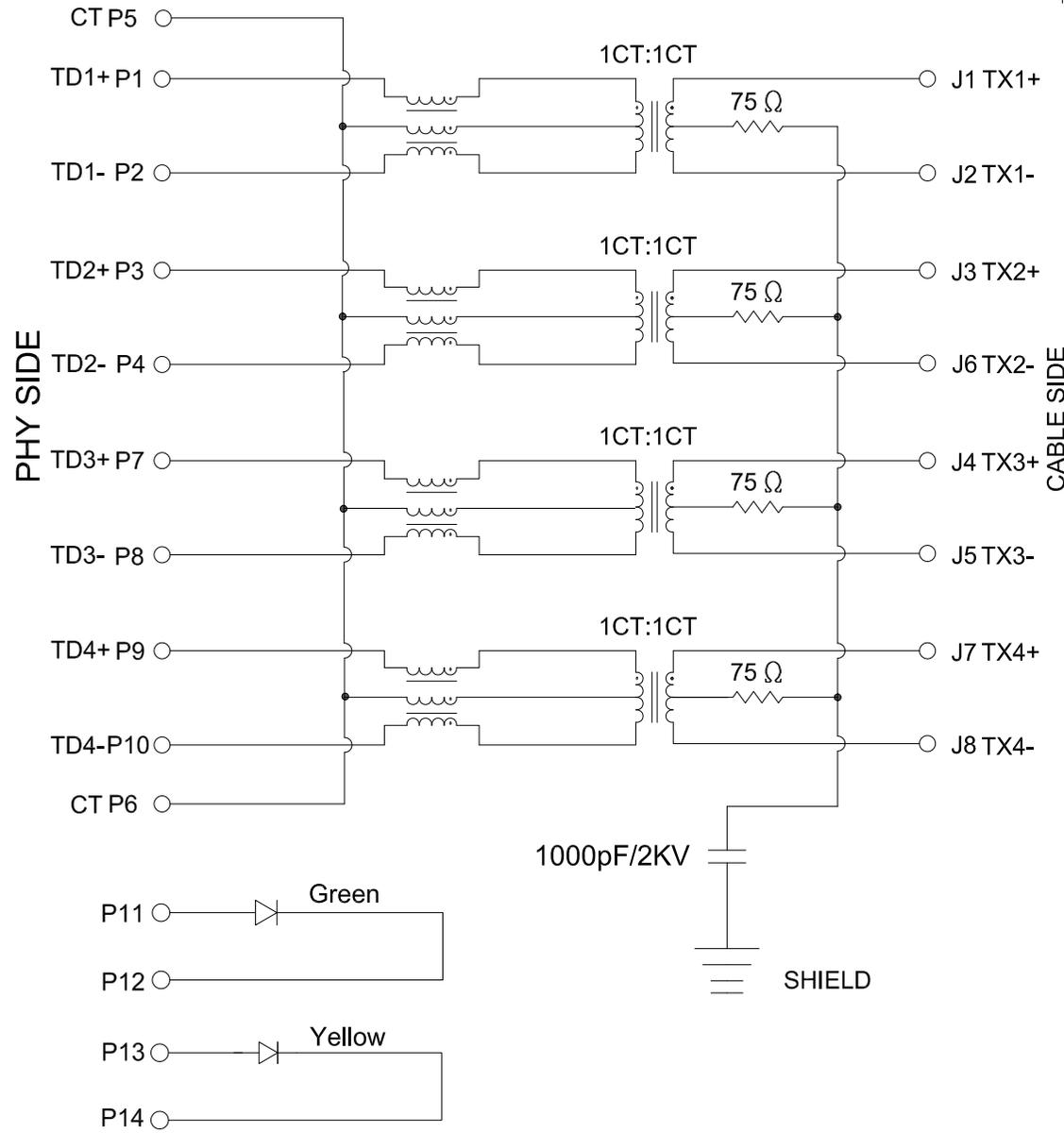
Matrix Electronics Co.,Ltd

TOLERANCE: X X.X ±0.38 X.XX ±0.25 X.XXX ±0.13 ANGLE:±3°		DESIGN BY : Vince Chen	DATE : 2023/04/24	PART NAME: RJ45 CONN W/ LED, 10/100/1000G BASE	
 UNIT: mm [inch] SCALE:1:1 SIZE:A4		CHECKED BY: Hanson Huang	DATE : 2023/04/24	PART NO.	MRJG-11T1834RS
		APPROVED BY1: Richard Hsieh	DATE : 2023/04/24	MOLD NO.	NA
		APPROVED BY2: Richard Hsieh	DATE : 2023/04/24	DRAW NO.	
				SHEET NO.	1 OF 3

GP Component

REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
A0			Initial	2023/04/24	Vince
A0.1			Add Pcb Size	2024/11/14	Vince

3. SCHEMATIC:



4. Electrical Specification @25°C:

PARAMETER	SPECIFICATIONS
OPERATING TEMPERATURE	0°C To +70°C
TURNS RATIO	1:1±2%
INDUCTANCE(OCL)	350uH MIN@100KHz/100mV With 8mA DC Bias
INSERTION LOSS	-1.0dB MAX@0.3MHz-100MHz;
RETURN LOSS (Z out=100 OHM)	-18dB MIN@1MHz-30MHz; -16dB MIN@30MHz-60MHz; -12dB MIN@60MHz-80MHz; -10dB MIN@80MHz-100MHz;
CROSSTALK (ADJACENT CHANNELS)	-30dB MIN@1MHz-100MHz;
COMMON MODE REJECTION RATIO	-30dB MIN@1MHz-100MHz;
HI-POT	2250 VDC@60 SECONDS

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

*WITH A FORWARD CURRENT OF 20mA

MATRIX PART NO:
 MRJ G-11 T 1834 RS
 Matrix-RJ45 F:10/100 G:10/100/1G N:Pure Connector 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

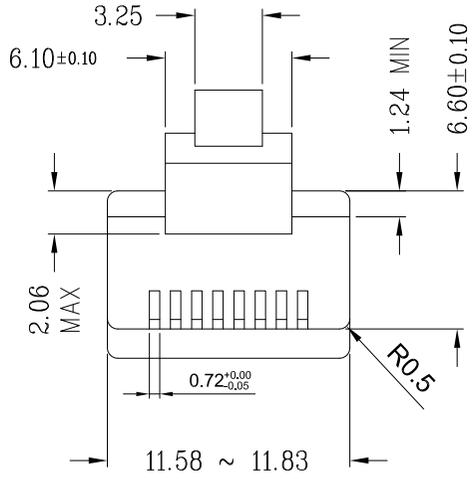


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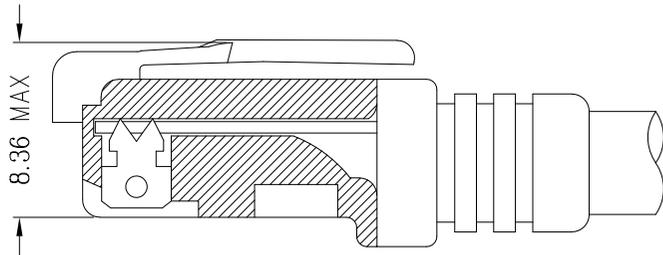
TOLERANCE: X X.X ±0.38 X.XX ±0.25 X.XXX ±0.13 ANGLE:±3°	DESIGN BY : Vince Chen	DATE : 2023/04/24	PART NAME: RJ45 CONN W/ LED, 10/100/1000G BASE	
 UNIT: mm [inch] SCALE:1:1 SIZE:A4	CHECKED BY: Hanson Huang	DATE : 2023/04/24	PART NO.	MRJG-11T1834RS
	APPROVED BY1: Richard Hsieh	DATE : 2023/04/24	MOLD NO.	NA
	APPROVED BY2: Richard Hsieh	DATE : 2023/04/24	DRAW NO.	
			SHEET NO.	2 OF 3

GP Component

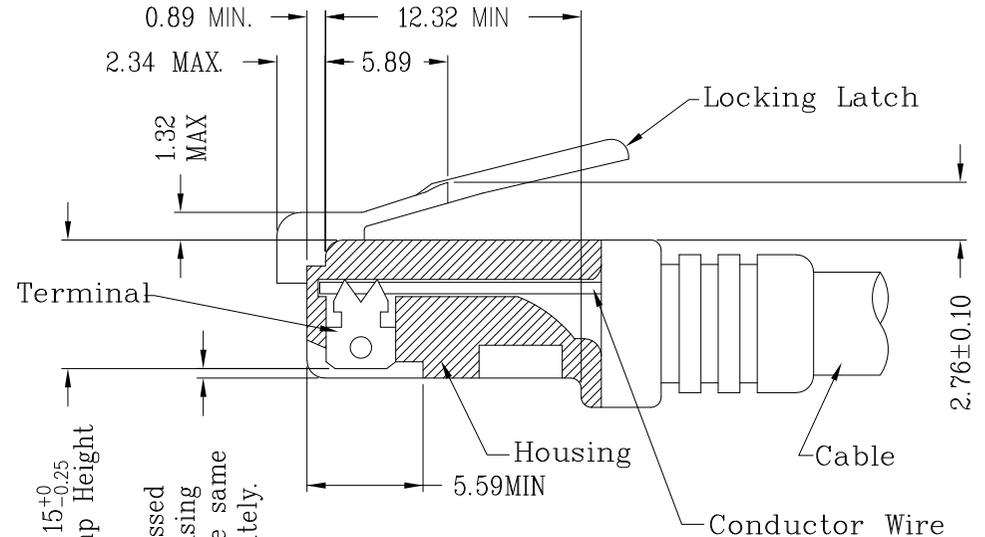
REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
A0			Initial	2023/04/24	Vince
A0.1			Add Pcb Size	2024/11/14	Vince



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



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



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



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 : 2023/04/24	PART NAME: RJ45 CONN W/ LED, 10/100/1000G BASE	
 UNIT: mm [inch] SCALE:1:1 SIZE:A4	CHECKED BY: Hanson Huang	DATE : 2023/04/24	PART NO.	MRJG-11T1834RS
	APPROVED BY1: Richard Hsieh	DATE : 2023/04/24	MOLD NO.	NA
	APPROVED BY2: Richard Hsieh	DATE : 2023/04/24	DRAW NO.	
			SHEET NO.	3 OF 3