

# GP Component

REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
A0			Initial	2022/10/06	Vince
A1			Modify Shell & Housing Fixed Column	2023/10/24	Vince
A2			Modify Shell Column	2024/03/05	Vince
A2.1			Add Plastic Color	2025/06/05	Vince

### SPECIFICATION NOTES:

#### ELECTRICAL:

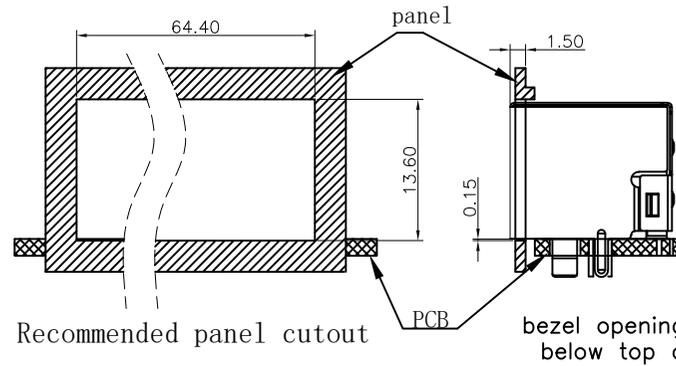
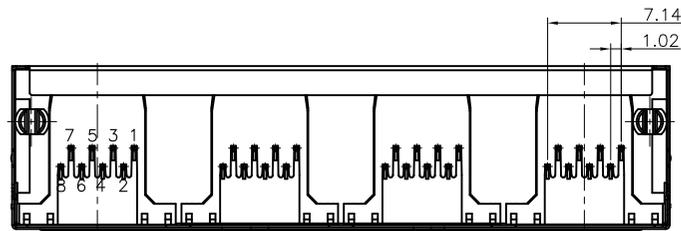
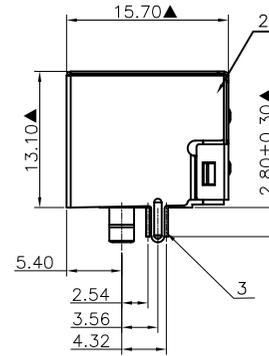
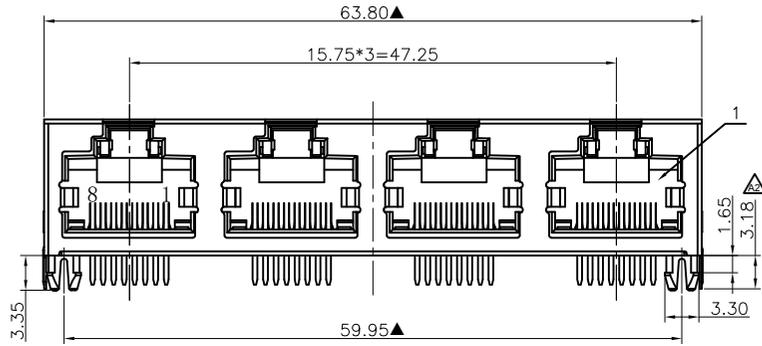
- VOLTAGE RATING: 125 VAC RMS
- CURRENT RATING: 1.5 AMP
- CONTACT RESISTANCE: 20mΩ MAX.
- INSULATION RESISTANCE: 1000MΩ MIN. AT 500V DC.
- DIELECTRIC STRENGTH: 1000 V AC OR 1500V DC RMS AT 0.5mA 50 Hz / 60 Hz FOR 1 MINUTE

#### MECHANICAL:

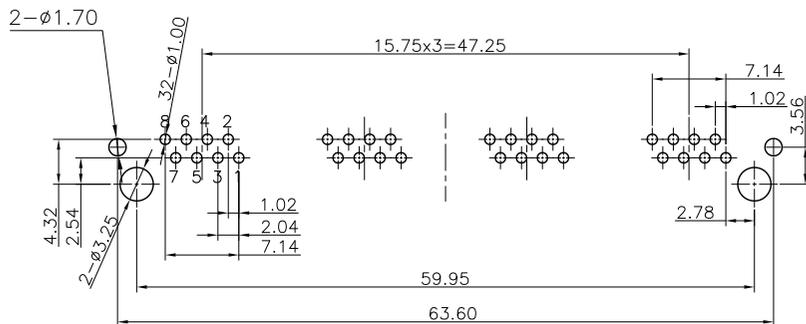
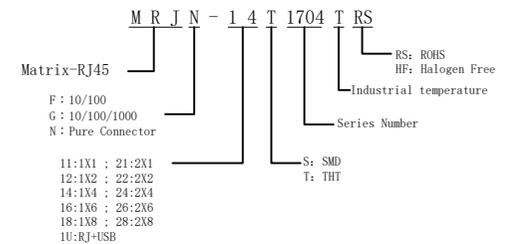
- HOUSING & INSERT & MATERIAL: PA46 (UL94V-0) BLACK.
- CONTACT MATERIAL: PHOSPHOR BRONZE T=0.35MM
- PLATING: GOLD PLATING FU" AT CONTACT AREA, MATTE TIN AT TAIL 100U MIN., NICKEL 30U MIN. OVER ALL.
- SHIELD: BRASS T=0.2MM PLATED NICKEL 30U"MIN.
- OPERATING LIFE: 750 CYCLES MIN.
- MATING/UNMATING FORCE: 30N/3.06KGf MAX.
- RETENTION STRENGTH: 50N MIN. FOR 60S ± 5S

#### ENVIRONMENTAL:

- STORAGE: -40° C TO +85° C RELATIVE HUMIDITY < 80%
- OPERATION: -40° C TO +85° C
- GUARANTEE PERIOD: 12 MONTHS
- WAVE SOLDERING TEMPERATURE: 260 ± 5° C 5~10 SECONDS. MATES WITH MODULAR PLUG CONFORMING TO FCC PART 68, SUBPART F.



MATRIX PART NO:



RECOMMENDED P.C.B LAYOUT TOP VIEW  
(COMPONENT SIDE TOLERANCE ± 0.05)



Matrix Electronics Co., Ltd

TOLERANCE:		DESIGN BY :	DATE :	PART NAME:	
X:X		Vince Chen	2025/06/05	RJ45 CONNECTOR W/SHELL W/O LED	
X.X	±0.38	CHECKED BY:	DATE :	PART NO.	MRJN-14T1704TRS
X.XX	±0.25	Hanson Huang	2025/06/05	MOLD NO.	NA
X.XXX	±0.13	APPROVED BY1:	DATE :	DRAW NO.	
ANGLE: ±1°		Richard Hsieh	2025/06/05	SHEET NO.	1 OF 1
UNIT: mm [inch]		APPROVED BY2:	DATE :		
SCALE:1:1	SIZE:A4	Richard Hsieh	2025/06/05		