

GP Component

REV.	ECN NO.	LOCATIONS	DESCRIPTION	DATE	DESIGN
A0.3			Add Led Electrical Parameter	2022/12/23	Vince
A1			Modify Shell	2023/01/07	Vince
A2			Modify Shell Buckle Point	2023/02/18	Vince

NOTES:

- HOUSING MATERIAL: LCP HF POLYESTER UL94V-0.
- CONTACT MATERIAL: COPPER ALLOY, T=0.35.
- PLATING: GOLD FLASH ON CONTACT AREA, 100u"MIN. MATTE TIN PLATED ON SOLDERING AREA, 50u"MIN. NICKEL PLATED OVERALL.
- SHELL: COPPER ALLOY, T=0.20. 30u"MIN. NICKEL PLATED OVERALL.
- LED: T=0.50, MATTE TIN PLATED.

ELECTRICAL:

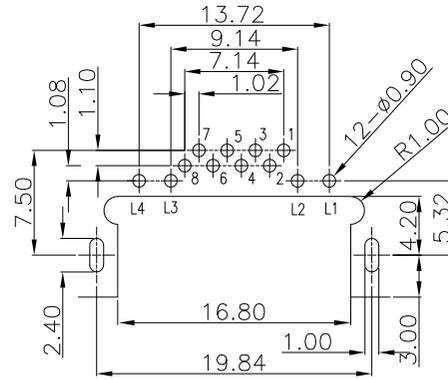
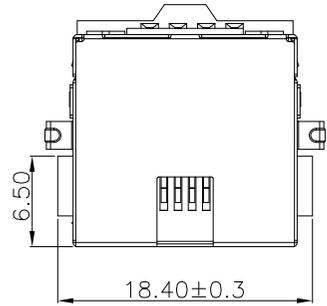
- VOLTAGE RATING: 125V AC RMS.
- CURRENT RATING: 1.5AMP.
- CONTACT RESISTANCE: 40MILLIOHMS MAX.
- INSULATION RESISTANCE: 500MEG OHMS MIN @100V DC.
- LED RATINGS: FORWARD VOLTAGE: 2.2 VOLTS TYPICAL. FORWARD CURRENT: 30mA MAX. REVERSE VOLTAGE; 5 VOLTS MAX.

MECHANICAL:

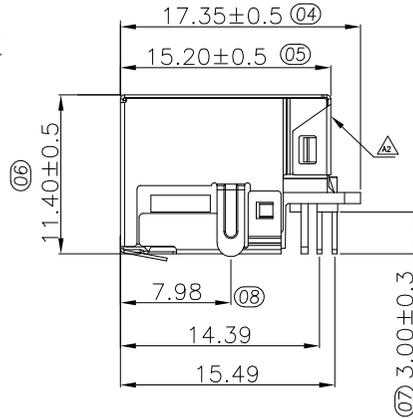
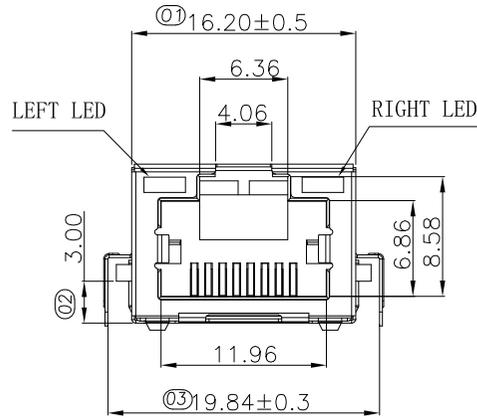
- DURABILITY: 750 CYCLES MIN.
- INSERTION FORCE: 22N MAX.
- REMOVAL FORCE (WITHOUT PLUG LOCK): 22N MAX.

ENVIRONMENTAL:

- STORAGE: -40°C~85°C
 - OPERATION: -40°C~85°C
- *Apply to the EU standards (ROSH)
1. ①~⑭为QIP尺寸.



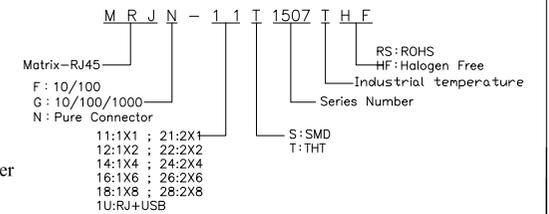
PCBLAYOUT
TOL: ±0.05



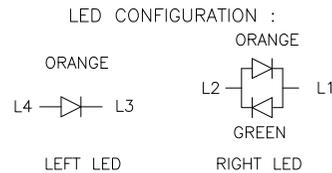
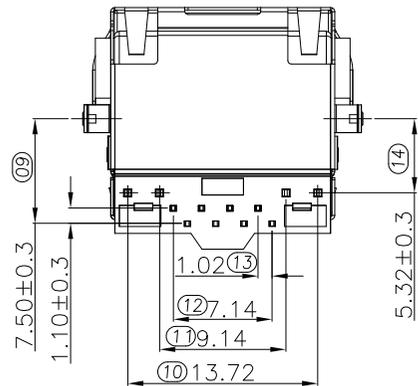
LED Specifications:

Standard LED Color	LED Wavelength	Forward (mA Max)	Typical (V TYP)
Green	565-575 nm	30	2.2
Orange	600-610 nm	30	2.2
Yellow	585-595 nm	30	2.2

MATRIX PART NO:



- LED intensity/wavelength measured with Photo research PR-650 colorimeter
- With a forward Current of 20mA, absolute maximum ratings (Ta=25°)



Pin Define		NO	VARIETY	QTY	MATERIAL	REMARK
	10/100 Base	1000 Base				
1	TX_DA+	TX_DA+				
2	TX_DA-	TX_DA-				
3	RX_DB+	RX_DB+				
4	N/C	BL_DC+				
5	N/C	BL_DC-				
6	RX_DB-	RX_DB-				
7	N/C	BL_DD+				
8	N/C	BL_DD-				



Matrix Electronics Co., Ltd

TOLERANCE:
X.X ±0.38
X.XX ±0.25
X.XXX ±0.13
ANGLE: ±3°

DESIGN BY :
Vince Chen

DATE :
2023/02/18

CHECKED BY:
Hanson Huang

DATE :
2023/02/18

APPROVED BY1:
Richard Hsieh

DATE :
2023/02/18

APPROVED BY2:
Richard Hsieh

DATE :
2023/02/18

PART NAME:
RJ45 CONN 1X1 BOTTOM
CONNNECTOR W/LED, 8P8C

PART NO.
MRJN-11T1507THF

MOLD NO.
NA

DRAW NO.
SHEET NO.

1 OF 1