

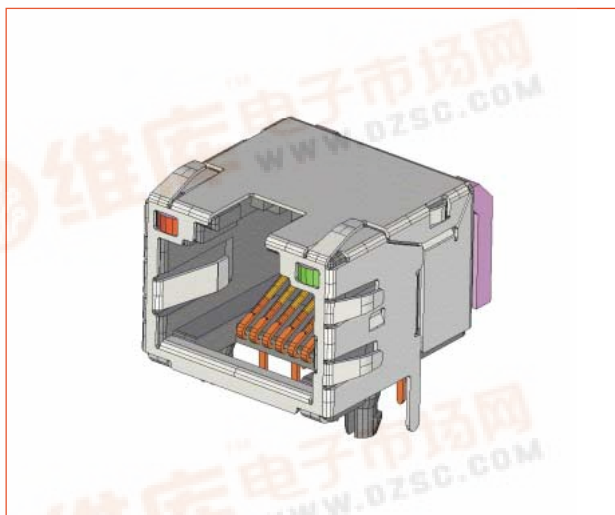
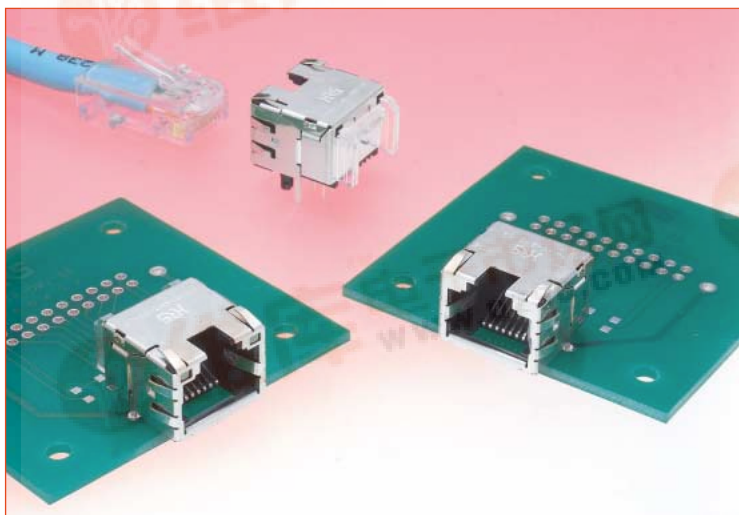
NEW

查询TM11R-5M2-88供应商

捷多邦，专业PCB打样工厂，24小时加急出货

Subminiature, LAN Modular Jack Connectors

TM11R-5M2 Series



■ Features

1. Fast Ethernet Support

Conforms to the TIA/EIA-568-A data wiring standard and meets requirements of CAT5 transmission performance for 1,2-3,6 conductor pairs. As such, these products fully support Fast Ethernet (100BASE-TX) transmission.

2. Subminiature Design Contributes to Saving Space in the Equipment

Having built-in optical indicators, with height of only 11.5mm, width of 15mm and depth of 17.5mm the connectors can be used in extremely limited spaces.

3. Built-in Optical Indicators

Optical indicators are integral part of the connectors help saving space on customer's board.

Compared with LED type indicators, they do not emit any electrical noise.

4. EMI protection

Metal shield covers the outer surfaces of the connectors assuring complete protection against electromagnetic interference.

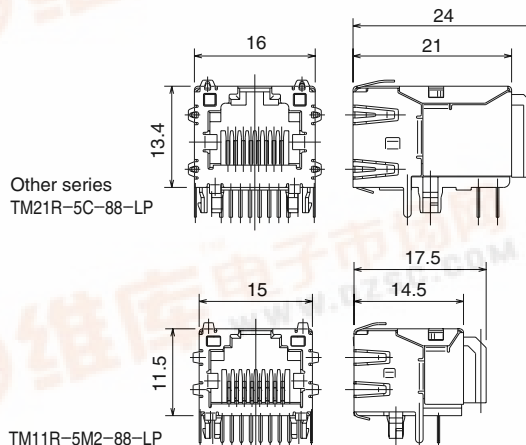
Built-in multiple shield and ground contacts assure reliable connection with the mounting panel as well as with the mating connectors.

5. Environmental considerations

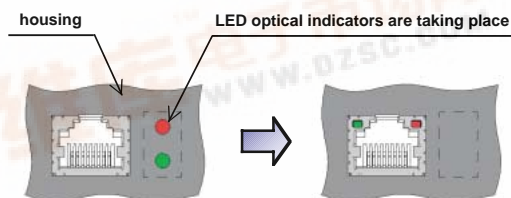
Plating is lead-free in order to protect environment.

6. FCC Standards

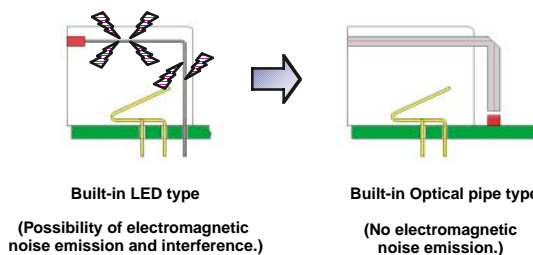
Meets requirements of FCC Title 47, Part 68, Subpart F.



Space saving



EMI protection



■ Applications

Telecom Hubs, Routers, Bridges and ATM Transmission Equipment, Ethernet Switches and Networking Equipment, Test and Measurement Equipment, Medical Diagnostic Equipment.



■Product Specifications

Rating	Current rating 1A	Operating temperature range : -25℃ to +80℃ (Note)
	Voltage rating 125 V AC	

Item	Specification	Conditions
1. Insulation resistance	100 M ohms min.	100 V DC
2. Dielectric Withstanding Voltage (between adjacent contacts)	No flashover or insulation breakdown	500 V AC applied for one minute
3. Withstanding voltage (between contact and shield)	No flashover or insulation breakdown	1500 V AC / one minute
4. Contact resistance	230 m ohms max.	100mA
5. Vibration	No electrical discontinuity of 5 μ sec. or more. Contact resistance: 250m ohms max.	Frequency: 10 to 55 Hz, single amplitude of 0.75 mm, 2 hours / 3 axis
6. Shock	No electrical discontinuity of 5 μ sec. or more. Contact resistance: 250m ohms max.	Acceleration of 490 m/s², 11 ms duration, sine half-wave waveform, 3 cycles in each of the 3 axis
7. Durability (mating/un-mating)	Contact resistance: 250m ohms max.	200 cycles
8. Temperature cycle	Contact resistance: 250 m ohms max. Insulation resistance: 100 M ohms min.	Temperature: -55℃→+15℃ to +35℃→+85℃→+15℃ to +35℃ Duration: 30→2 to 3→30→2 to 3(Minutes) 5 cycles
9. Humidity	Contact resistance: 250 m ohms max. Insulation resistance: 1 M ohms min. (High humidity) Insulation resistance: 10 M ohms min. (Dry state)	500 hours at temperature of 40℃ and humidity of 90% to 95%
10. Salt Spray	Contact resistance: 250 m ohms max.	Exposed to density 5% salt water for 48 hours

Note :Includes temperature rise caused by current flow.

■Materials

Part	Material	Finish	Remarks
Insulator	PBT	Color: Black	UL94V-0
Contact	Copper alloy	Contact area: Gold plating Termination area: Tin alloy plating	—
Optical pipe	Polycarbonate	Color: Transparent	UL94V-0
Shield	Copper alloy	Tin plating	—

■Ordering information

●Jacks

TM11 R - 5M2 - 8 8 - LP

① ② ③ ④ ⑤ ⑥

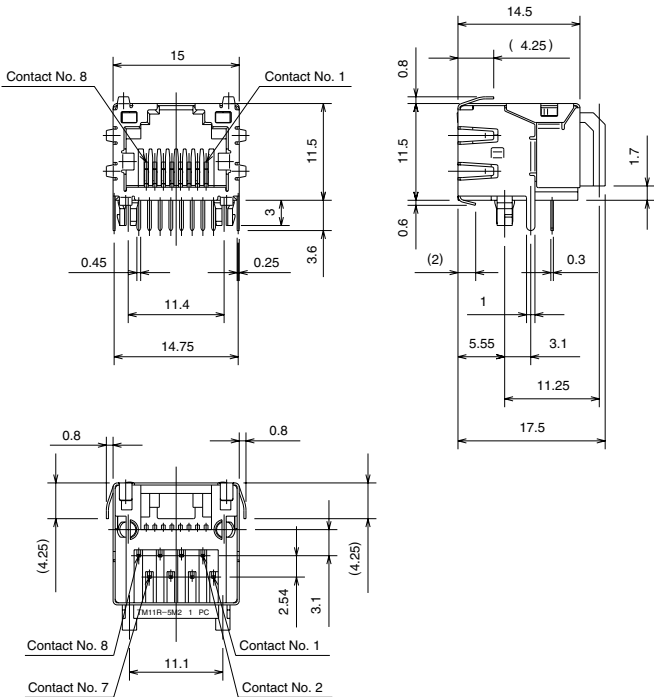
① Series name	TM11 Series
② Connector type	R: Jack
③ Jack type	5M2: PCB Right-angle through hole type
④ Jack opening code	8: 8 contacts
⑤ Number of inserted contacts	8: 8 contact
⑥ Optical pipe	LP: With optical pipe inserted Blank: Without optical pipe

■Modular Jack Connectors Supporting CAT5e (for 1,2-3,6 pair)

●Single Port With Built-in Optical Pipe



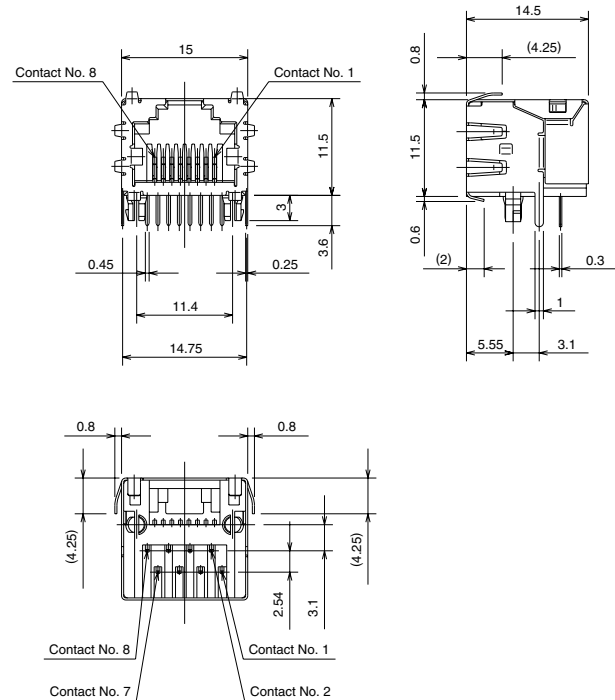
Part Number	CL No.
TM11R-5M2-88-LP	222-2905-0



●Single Port Without Optical Pipe

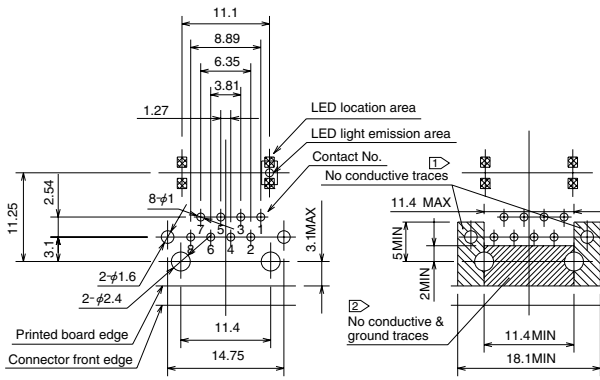


Part Number	CL No.
TM11R-5M2-88	222-2906-2

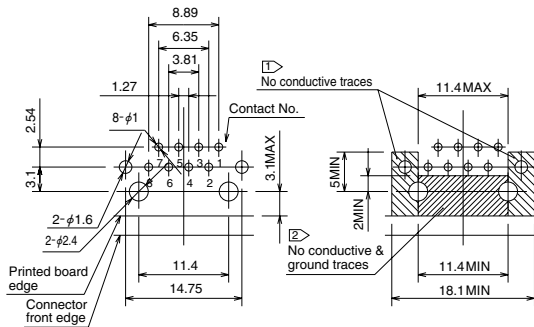


◆ Recommended PCB mounting patterns

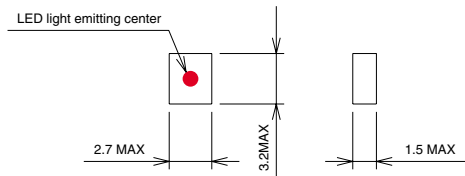
● With Built-in Optical Pipe



● Without Optical Pipe



④ Suggested LEDs

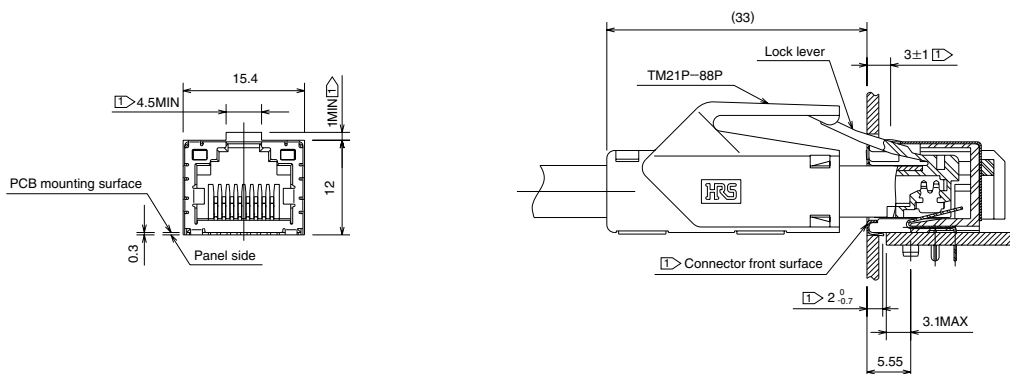


*Recommendations for PCB Design

- ① Areas indicated should be free of conductive traces.
- ② Area indicated should be free of conductive & ground traces.
- 3 Recommended board thickness: 1.6mm.
- ④ To assure that the indicator light pipes operates correctly the LED's must be installed directly on the PCB, within recommended dimensions and with light emitting center in upward direction.
Contact applicable manufacturer for LED specification.

◆ Panel Cutout

● For Both Types, With and Without Built-in Optical Pipe



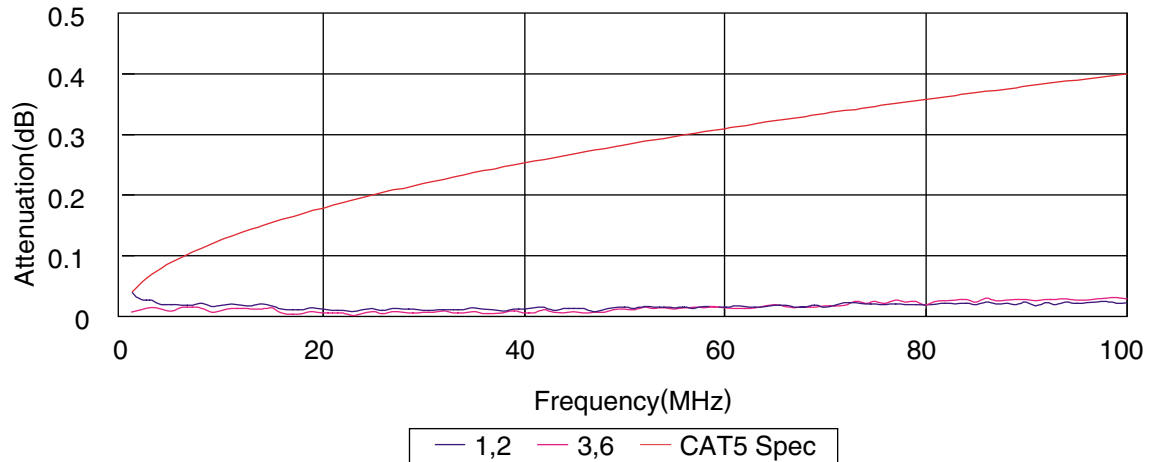
*Recommendations for Panel Design

- ① The shield contacts should connect with the panel cut-out on all sides.

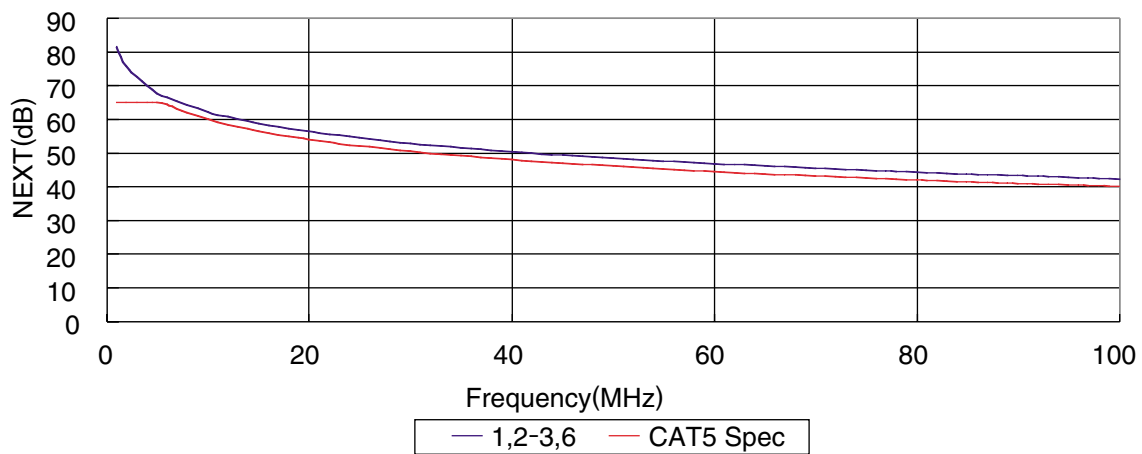
◆ CAT5 Transmission Characteristics Data

For fully mated receptacle (TM11R-5M2-88-LP) and plug (TM21P-88P).

● Signal Attenuation



● Near-End Crosstalk (NEXT)



● Return Loss

