

## FEATURES

- Magnetic designs to support every PHY.
- Meet or exceed IEEE 802.3 and ANSI X3.263 standards.
- including 350uH min OCL with 8mA bias.
- Minimum 1500Vrms isolation per IEEE 802.3 requirement
- Designed for 100 base transmission over UTP-5 cable.
- Size same as RJ-45 modular jack to save PCB board Space.

<b>ELECTRICAL SPECIFICATIONS @25°C-Operating temperature 0°C TO 70°C</b>																	
Part Number	Turns Ratio ±5%		EMI Fingers	LED (L/R)	Insertion Loss (dB max)	Return Loss (dB min @100Ω±15Ω)					Crosstalk (dB min)			Common Mode Rejection (dB min)			Hipot (V <sub>rms</sub> )
	TX	RX				0.3-100 MHz	1-30 MHz	40 MHz	50 MHz	60-80 MHz	30 MHz	60 MHz	100 MHz	30 MHz	60 MHz	100 MHz	
RJ3-60X	1CT:1CT	1CT:1CT	YES	N/A	-1	-18	-16	-14	-12	-45	-40	-35	-35	-30	-25	1500	
RJ3-61X	1CT:1CT	1CT:1CT	YES	N/A	-1	-18	-16	-14	-12	-45	-40	-35	-35	-30	-25	1500	
RJ3-62X	1CT:1	1CT:1CT	YES	N/A	-1	-18	-16	-14	-12	-45	-40	-35	-35	-30	-25	1500	
RJ3-69GYDNW2	1CT:1	1CT:1	NO	G/Y	-1	-18	-16	-12	-10	-40	-35	-30	-30	-20	-20	1500	
RJ3-69ND2	1CT:1	1CT:1	YES	N/A	-1	-18	-16	-12	-10	-40	-35	-30	-30	-20	-20	1500	
RJ3-69GYD2	1CT:1	1CT:1	YES	G/Y	-1	-18	-16	-12	-10	-40	-35	-30	-30	-20	-20	1500	
RJ3-64NW2	1CT:1CT	1CT:1CT	NO	N/A	-1	-18	-16	-12	-10	-40	-35	-30	-30	-20	-20	1500	
RJ3-64GYDNW2	1CT:1CT	1CT:1CT	NO	G/Y	-1	-18	-16	-12	-10	-40	-35	-30	-30	-20	-20	1500	
RJ3-64ND2	1CT:1CT	1CT:1CT	YES	N/A	-1	-18	-16	-12	-10	-40	-35	-30	-30	-20	-20	1500	
RJ3-64GYD2	1CT:1CT	1CT:1CT	YES	G/Y	-1	-18	-16	-12	-10	-40	-35	-30	-30	-20	-20	1500	
RJ3-64GGD2	1CT:1CT	1CT:1CT	YES	G/G	-1	-18	-16	-12	-10	-40	-35	-30	-30	-20	-20	1500	
RJ3-61ND2	1CT:1CT	1CT:1CT	YES	N/A	-1	-18	-16	-12	-10	-40	-35	-30	-30	-20	-20	1500	
RJ3-64AND2	1CT:1.414CT	1CT:1CT	YES	N/A	-1	-18	-16	-12	-10	-40	-35	-30	-30	-20	-20	1500	
RJ3-64AGGD2	1CT:1.414CT	1CT:1CT	YES	G/G	-1	-18	-16	-12	-10	-40	-35	-30	-30	-20	-20	1500	
RJ3-62ANW2	1CT:1	1CT:1CT	NO	N/A	-1	-18	-16	-12	-10	-40	-35	-30	-30	-20	-20	1500	
RJ3-62AGYDNW2	1CT:1	1CT:1CT	NO	G/Y	-1	-18	-16	-12	-10	-40	-35	-30	-30	-20	-20	1500	
RJ3-62AGDNDW2	1CT:1	1CT:1CT	NO	G/G	-1	-18	-16	-12	-10	-40	-35	-30	-30	-20	-20	1500	
RJ3-62AND2	1CT:1	1CT:1CT	YES	N/A	-1	-18	-16	-12	-10	-40	-35	-30	-30	-20	-20	1500	
RJ3-62AGYD2	1CT:1	1CT:1CT	YES	G/Y	-1	-18	-16	-12	-10	-40	-35	-30	-30	-20	-20	1500	
RJ3-62AGGD2	1CT:1	1CT:1CT	YES	G/G	-1	-18	-16	-12	-10	-40	-35	-30	-30	-20	-20	1500	
RJ3-62ADGD2	1CT:1	1CT:1CT	YES	Y/G/G	-1	-18	-16	-12	-10	-40	-35	-30	-30	-20	-20	1500	
RJ3-62CGYD2	1CT:1	1CT:1CT	YES	G/Y	-1	-18	-16	-12	-10	-40	-35	-30	-30	-20	-20	1500	
RJ3-60CND2	1CT:1CT	1CT:1CT	YES	N/A	-1	-18	-16	-12	-10	-40	-35	-30	-30	-20	-20	1500	
RJ3-60VGYD2	1CT:1CT	1CT:1CT	YES	G/Y	-1	-18	-16	-12	-10	-40	-35	-30	-30	-20	-20	1500	
RJ3-61FND2	1CT:1CT	1CT:1CT	YES	N/A	-1	-18	-16	-12	-10	-40	-35	-30	-30	-20	-20	1500	
RJ3-66YGDNDW2	1CT:1CT	1CT:1CT	NO	Y/G	-1	-18	-16	-12	-10	-40	-35	-30	-30	-20	-20	1500	

PART NUMBER: RJ3 - 6XX    GYD    NW    2

A      B      C      D      E

A: SERIES

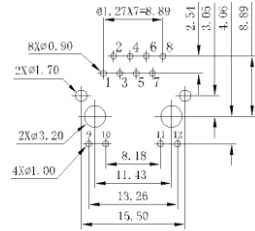
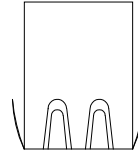
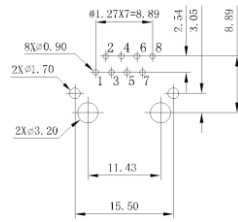
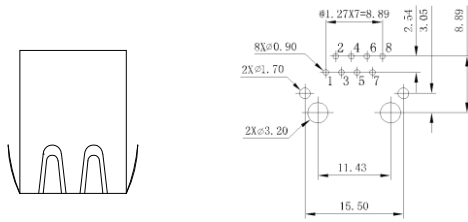
B: SCHEMATICS

C: LED

D: MECHANICAL

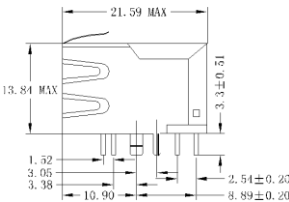
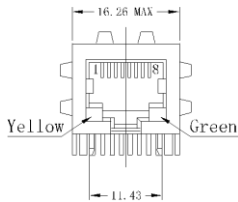
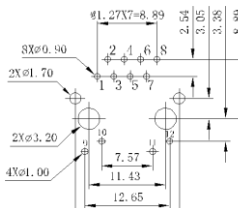
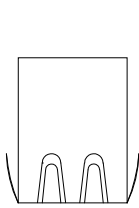
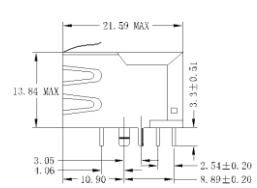
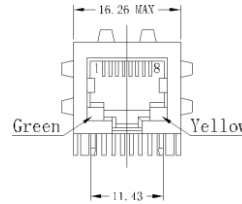
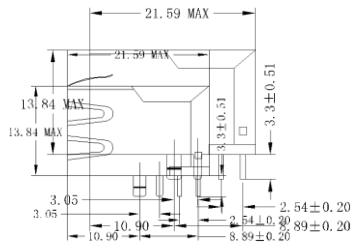
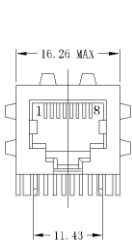
E: GOLD PLATING(1=3u, 2=6u, 3=15u, 4=30u, 5=50u)

**Mechanicals and Dimensions**



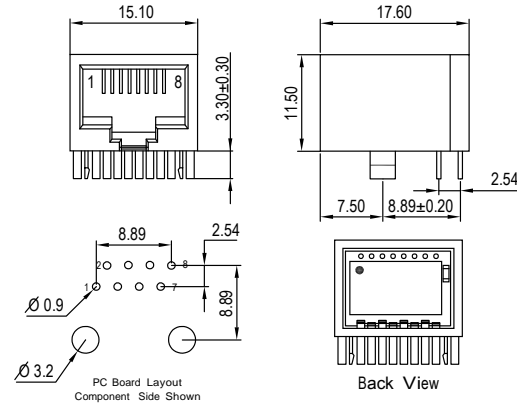
PC Board Layout Component Side Shown

PC Board Layout Component Side Shown



※ led pin are parallel

**Single Small Module**



PC Board Layout Component Side Shown

Back View

※ led pin are oblique

UNIT: mm all tolerances are ± 0.25

**MATERIALS**

**1.Housing Material:**

MATERIAL:NYLON +25% GF (Fr50) UL94V-0  
STANDARD COLOR:BLACK

**2.Insert Material:**

MATERIAL:Phos-Bronze C5210 EH---0.35mm Thickness  
Insert -PBT+30% GF UL94V-0

- 1.PLATING(1) NICKEL
- 2.PLATING(2) 100%Sn
- 3.PLATING(3) GOLD FLASH (3u " ~ 50u " )

**3.Plate Material:PBT-4830 +30% GF UL 94V-0**

**4.Contact pin Material:**

MATERIAL: Phos-Bronze C5210 EH---0.35mm Thickness

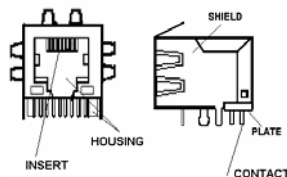
- 1.PLATING(1) NICKEL
- 2.PLATING(2) 100%Sn

**5.Shielding Material:**

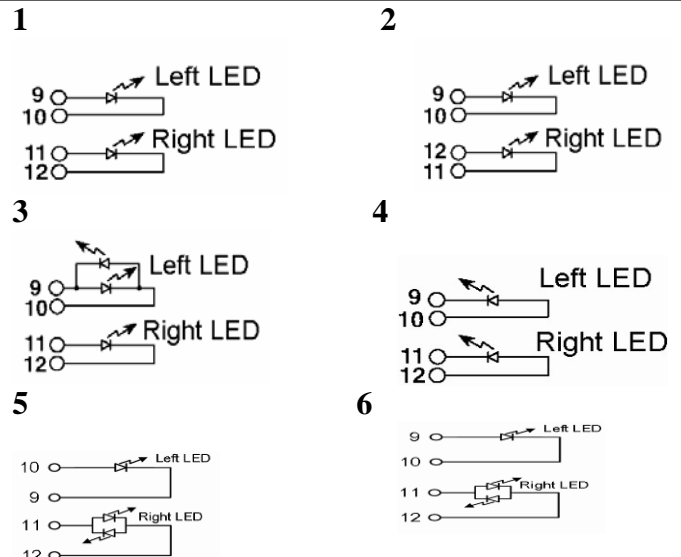
BRASS C2680 H.---0.25mm THICKNESS  
PLATING NICKEL

**6.Operation Life : 750 Cycles Min.**

**7. Mates with Modular Plug Conforming to FCC part 68, sub part F.**



**LED Configuration**



V<sub>in</sub> = 2.1Vdc TYP. 2.5 Vdc MAX.

**SCHEMATICS**

