



### FEATURES

- 1X1 Tab-UP, 1" Long RJ45 with internal magnetics
- 8 or 6-pin signal pin versions available
- Available with and without LEDs
- Suitable for CAT 5 & 6 Fast Ethernet Cable or better UTP
- Internal magnetics are 100% electrically tested for HI-POT and functionality
- 350 μH minimum OCL with 8 mA bias current
- Recognized by UL 60950-1



ELECTRICAL SPECIFICATIONS @25°C -Operating temperature 0°C TO 70°C														
Part Number	Turns Ratio		LEDs	Insertion Loss (dB TYP)	Return Loss (dB TYP) 100Ω±15Ω				Crosstalk (dB TYP)			Common Mode Rejection (dB TYP)		Hipot (Vrms)
	TX	RX	L/R	1-65 MHz	1-10 MHz	10-30 MHz	30-60 MHz	60-80 MHz	1-30 MHz	30-60 MHz	60-100 MHz	1-50 MHz	50-150 MHz	@60Hz
47F-1201ND2	1CT:1	1CT:1CT	NONE	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500
47F-1202YGD2	1CT:1CT	1CT:1CT	Y/G	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500
47F-1203ND2	1CT:1	1CT:1CT	NONE	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500
47F-1204GYDNW2	1CT:1	1CT:1	G/Y	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500
47F-1204ND2	1CT:1	1CT:1	NONE	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500
47F-1205GYDNW2	1CT:1CT	1CT:1CT	G/Y	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500
47F-1205YD2	1CT:1CT	1CT:1CT	G/Y	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500
47F-1206YGDNW2	1CT:1CT	1CT:1CT	Y/G	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500
47F-1206YGD2	1CT:1CT	1CT:1CT	Y/G	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500
47F-1206GGD2	1CT:1CT	1CT:1CT	G/G	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500
47F-1207NW2	1CT:1	1CT:1CT	NONE	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500
47F-1207GYDNW2	1CT:1	1CT:1CT	G/Y	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500
47F-1207YD2	1CT:1	1CT:1CT	Y/G	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500
47F-1211GDD2	1CT:1	1CT:1	G/O_G	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500
47F-1212GDD2	1CT:1CT	1CT:1CT	G/O_G	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500
47F-1213GDD2	1CT:1	1CT:1CT	G/O_G	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500

### Part Number

**47F- 1204 GYD NW 2 NL**

A B C D E F

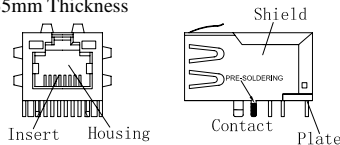
- A:Series
- B:Schematics
- C:Led
- D:Mechanical
- E:Gold Plating: 1=3u",2=6u",3=15u",4=30u"5=50u"
- F:RoHS Version

### 47F-120X Mechanicals

**Housing Material:** MATERIAL:NYLON GF (Fr50) UL94V-0 STANDARD COLOR:BLACK

**Insert Material:** MATERIAL:Phos-Bronze C5210 EH---0.35mm Thickness Insert -PBT GF UL94V-0

- 1.PLATING(1) NICKEL
  - 2.PLATING(2) 100% Sn
  - 3.PLATING(3) GOLD (3u " ~50u " )
- Plate Material:** PBT GF UL 94V-0



**Contact pin Material:** MATERIAL: Phos-Bronze C5191---0.35mm Thickness

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

**Shielding Material:** BRASS C2680 PLATING NICKEL

**Operating Life:**750 Cycles MIN.

**Environmental**

Storage Temp:-40°C TO +85°C

Operating Temp: 0°C TO +70°C

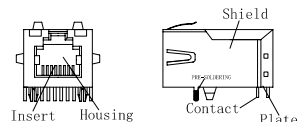
MATES WITH MODULAR PLUG CONFORMING TO FCC PART 68,SUBPART F

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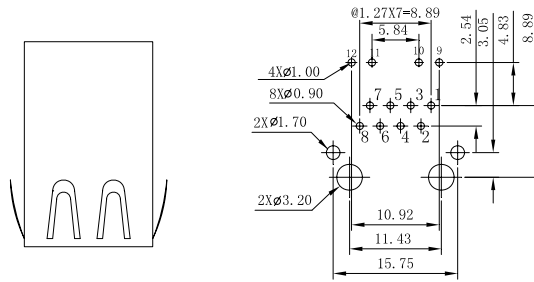
MATES WITH MODULAR PLUG CONFORMING TO FCC PART 68,SUBPART F



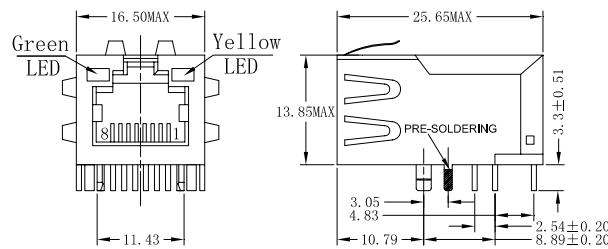
RJ45 10/100 BASE-T JACK WITH MAGNETIC MODULE

Mechanicals And Dimensions

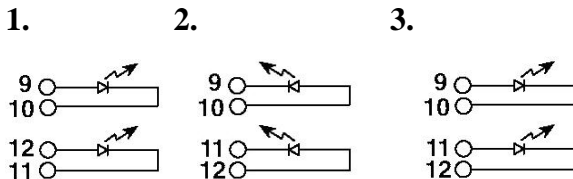
120X



PC Board Layout  
Component Side Shown



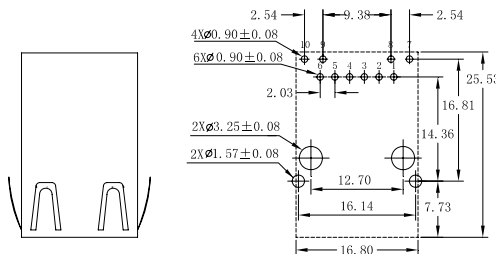
UNIT:mm Unless otherwise specified,all tolerances are ±0.25



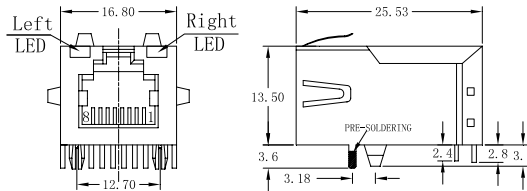
Standard LED	Wavelength	Forward* V(MAX)	(TYP)
Yellow	585 nm	2.5 V	2.1 V
Green	565 nm	2.5 V	2.2 V

\* With a forward current of 20 mA

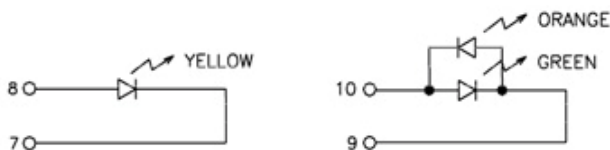
121X



PC Board Layout  
Component Side Shown



UNIT:mm Unless otherwise specified,all tolerances are ±0.25



Standard LED	Wavelength	Forward* V (MAX)	(TYP)
Yellow	585 nm	2.5 V	2.1 - 2.2 V
Green	565 nm	2.5 V	2.1 - 2.2 V
Orange	610 nm	2.5 V	2.1 - 2.2 V

\* With a forward current of 20 mA



### SCHEMATICS

