

# 13F-60 SERIES

# RJ45 10/100 BASE-T JACK WITH MAGANETIC MODULE

## 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



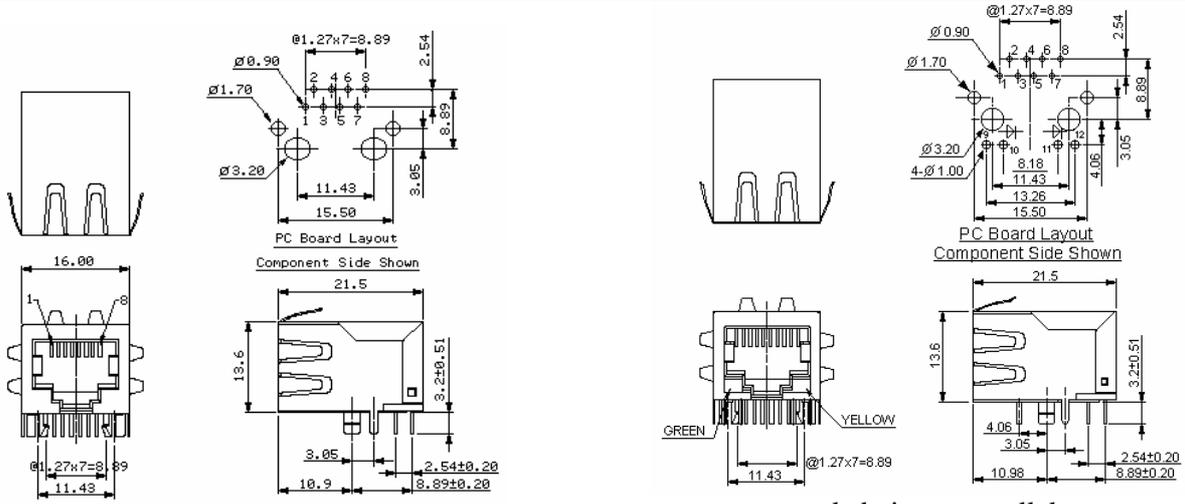
ELECTRICAL SPECIFICATIONS @25 -Operating temperature 0 TO 70																	
Part Number	Turns Ratio ±5%		EMI Fingers	LEDS (L/R)	Insertion Loss (dB max) 0.1 - 100 MHz	Return Loss (dB min @ 100 O)					Crosstalk (dB min)			Common Mode Rejection (dB min)			Hipot (V <sub>rms</sub> min)
	TX	RX				0.1-100 MHz	1-30 MHz	40 MHz	50 MHz	60-80 MHz	30 MHz	60 MHz	100 MHz	30 MHz	60 MHz	100 MHz	
13F-60X	1CT:1CT	1CT:1CT	YES	N/A	-1	-18	-16	-14	-12	-45	-40	-35	-35	-30	-25	1500	
13F-61X	1CT:1CT	1CT:1CT	YES	N/A	-1	-18	-16	-14	-12	-45	-40	-35	-35	-30	-25	1500	
13F-62X	1CT:1	1CT:1CT	YES	N/A	-1	-18	-16	-14	-12	-45	-40	-35	-35	-30	-25	1500	
13F-69GYDNW2	1CT:1	1CT:1	NO	G/Y	-1	-18	-16	-12	-10	-40	-35	-30	-30	-20	-20	1500	
13F-69ND2	1CT:1	1CT:1	YES	N/A	-1	-18	-16	-12	-10	-40	-35	-30	-30	-20	-20	1500	
13F-69GYD2	1CT:1	1CT:1	YES	G/Y	-1	-18	-16	-12	-10	-40	-35	-30	-30	-20	-20	1500	
13F-64NW2	1CT:1CT	1CT:1CT	NO	N/A	-1	-18	-16	-12	-10	-40	-35	-30	-30	-20	-20	1500	
13F-64GYDNW2	1CT:1CT	1CT:1CT	NO	G/Y	-1	-18	-16	-12	-10	-40	-35	-30	-30	-20	-20	1500	
13F-64ND2	1CT:1CT	1CT:1CT	YES	N/A	-1	-18	-16	-12	-10	-40	-35	-30	-30	-20	-20	1500	
13F-64GYD2	1CT:1CT	1CT:1CT	YES	G/Y	-1	-18	-16	-12	-10	-40	-35	-30	-30	-20	-20	1500	
13F-64GGD2	1CT:1CT	1CT:1CT	YES	G/G	-1	-18	-16	-12	-10	-40	-35	-30	-30	-20	-20	1500	
13F-61ND2	1CT:1CT	1CT:1CT	YES	N/A	-1	-18	-16	-12	-10	-40	-35	-30	-30	-20	-20	1500	
13F-64AND2	1CT:1.414CT	1CT:1CT	YES	N/A	-1	-18	-16	-12	-10	-40	-35	-30	-30	-20	-20	1500	
13F-64AGGD2	1CT:1.414CT	1CT:1CT	YES	G/G	-1	-18	-16	-12	-10	-40	-35	-30	-30	-20	-20	1500	
13F-62ANW2	1CT:1	1CT:1CT	NO	N/A	-1	-18	-16	-12	-10	-40	-35	-30	-30	-20	-20	1500	
13F-62AGYDNW2	1CT:1	1CT:1CT	NO	G/Y	-1	-18	-16	-12	-10	-40	-35	-30	-30	-20	-20	1500	
13F-62AGGDNW2	1CT:1	1CT:1CT	NO	G/G	-1	-18	-16	-12	-10	-40	-35	-30	-30	-20	-20	1500	
13F-62AND2	1CT:1	1CT:1CT	YES	N/A	-1	-18	-16	-12	-10	-40	-35	-30	-30	-20	-20	1500	
13F-62AGYD2	1CT:1	1CT:1CT	YES	G/Y	-1	-18	-16	-12	-10	-40	-35	-30	-30	-20	-20	1500	
13F-62AGGD2	1CT:1	1CT:1CT	YES	G/G	-1	-18	-16	-12	-10	-40	-35	-30	-30	-20	-20	1500	
13F-62ADGD2	1CT:1	1CT:1CT	YES	Y/G/G	-1	-18	-16	-12	-10	-40	-35	-30	-30	-20	-20	1500	
13F-62CGYD2	1CT:1	1CT:1CT	YES	G/Y	-1	-18	-16	-12	-10	-40	-35	-30	-30	-20	-20	1500	

\*suffix "X"=the pin thickness of gold-plated; 1=3u, 2=6u, 4=30u, 5=50u.

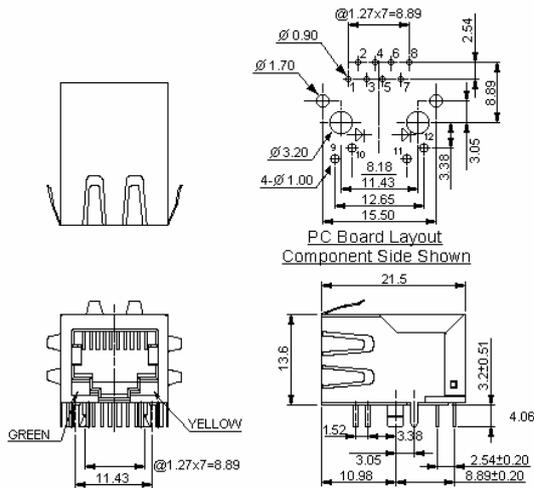
# 13F-60 SERIES

# RJ45 10/100 BASE-T JACK WITH MAGANETIC MODULE

## MECHANICAL



led pin are parallel



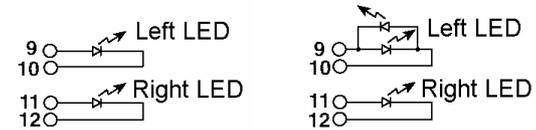
led pin are oblique

Dimensions: mm all tolerances are  $\pm 0.25$

## MATERIALS

1. Housing Material: Glass filled Polyester UL94V-0
2. Contact Material : Phosphor Bronze  $t=0.35\text{mm}$ .
3. Plating :
  - 1: Contact Area-Selectine Gold Plating.
  - 2: Tails-150u" Tin-Lead Min Over 50u" Nickel.
4. Operation Life : 750 Cycles Min.
5. Pcb Retention Pre-Solder: 1 Lb Min.
6. Pcb Retention Post-Solder: 10 Lb Min.

## LED Configuration



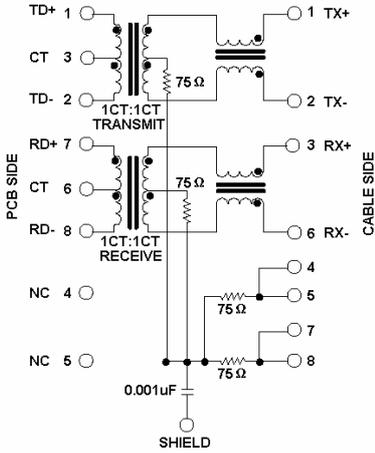
Vin=2.1V TYP. 2.5V MAX.

# 13F-60 SERIES

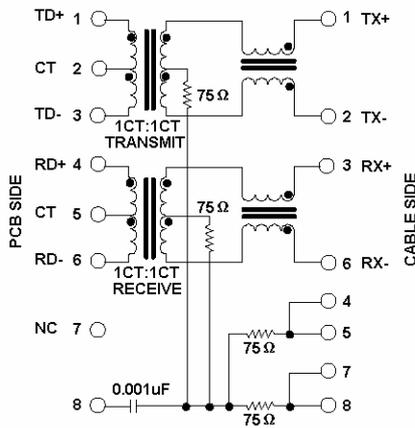
# RJ45 10/100 BASE-T JACK WITH MAGANETIC MODULE

## SCHEMATICS

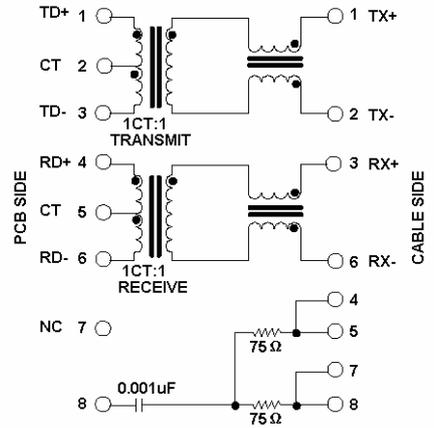
**13F-60**



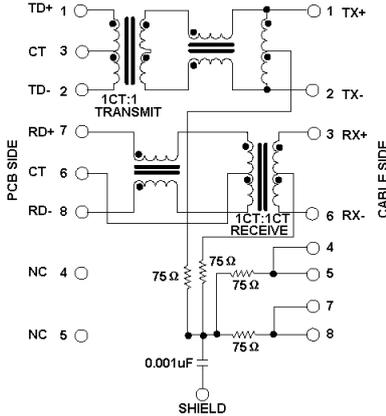
**13F-61**



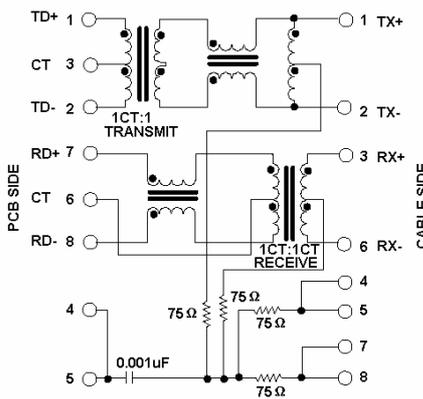
**13F-61A**



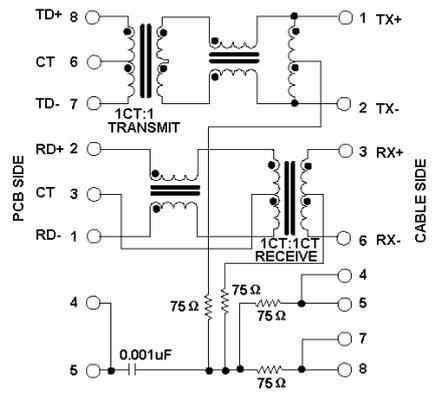
**13F-62**



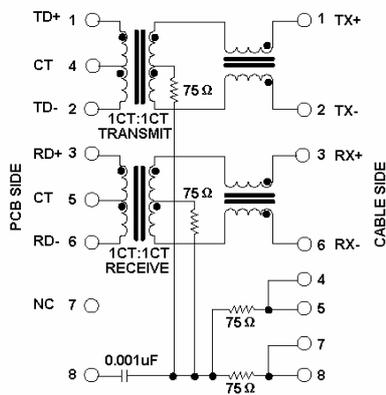
**13F-62A**



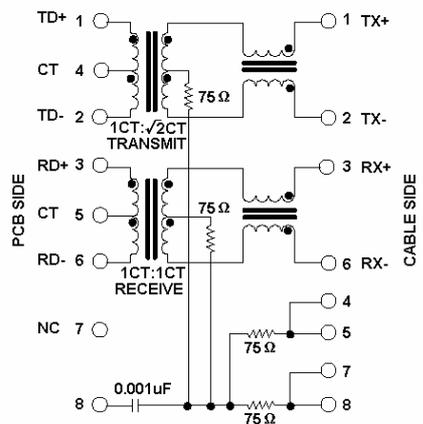
**13F-62C**



**13F-64**



**13F-64A**



**13F-69**

