

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



## N5447F SERIES



- 1x1 Tab-UP RJ45 connector with integrated magnetics
- 8 or 6 pin versions available with or without LEDs
- Suitable for CAT 5 & 6 Fast Ethernet Cable or better UTP
- Meets IEEE 802.3 specification
- 350µH minimum OCL with 8mA bias current
- Alternate configurations available upon request
- Operating Temperature: 0°C to +70°C
- RoHS Compliant Product

## ELECTRICAL PARAMETERS @ 25°C

Part Number	Turns Ratio		EMI Fingers	LEDs L/R	Insertion Loss (db TYP)	Return Loss (dB TYP) 100Ω ±15Ω					Crosstalk (dB TYP)			Common Mode Rejection (dB TYP)		Hipot (Vrms) @60Hz	Schematic	Mechanical Specs
	TX	RX				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			
N5447F-																		
1201-NN	1CT:1	1CT:1	YES	NONE	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500	01	A	
1202-YG	1CT:1	1CT:1	YES	Y/G	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500	02	A	
1203-NN	1CT:1	1CT:1	YES	NONE	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500	03	A	
2204-GY	1CT:1	1CT:1	NO	G/Y	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500	04	A	
1204-NN	1CT:1	1CT:1	YES	NONE	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500	04	A	
2205-GY	1CT:1	1CT:1	NO	G/Y	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500	05	A	
1205-GY	1CT:1	1CT:1	YES	G/Y	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500	05	A	
2206-YG	1CT:1	1CT:1	NO	Y/G	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500	06	A	
1206-YG	1CT:1	1CT:1	YES	Y/G	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500	06	A	
1206-GG	1CT:1	1CT:1	YES	G/G	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500	06	A	
1207-NN	1CT:1	1CT:1	YES	NONE	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500	07	A	
2207-GY	1CT:1	1CT:1	NO	G/Y	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500	07	A	
1207-YG	1CT:1	1CT:1	YES	Y/G	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500	07	A	
1211-BY	1CT:1	1CT:1	YES	G_O/Y	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500	11	B	
1212-BY	1CT:1	1CT:1	YES	G_O/Y	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500	12	B	
1213-BY	1CT:1	1CT:1	YES	G_O/Y	-1.0	-20	-16	-12	-10	-40	-35	-30	-30	-20	1500	13	B	

## PART NUMBERING

**N5447F** - 1 2 01 - XX  
A B C D E

- A: MPS SERIES NUMBER
- B: EMI FINGERS (1 = YES, 2 = NO)
- C: GOLD PLATING (1=3u", 2=6u", 3=15u", 4=30u", 5=50u")
- D: SCHEMATIC
- E: LED (LEFT/RIGHT)  
(G=GREEN, Y=YELLOW, N=NONE, B=GREEN/ORANGE BI-COLOR)

Product performance is limited to specified parameters. Data is subject to change without prior notice.

Tel: 310-325-1043  
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# RJ45 10/100 BASE-T JACK WITH MAGNETIC MODULE

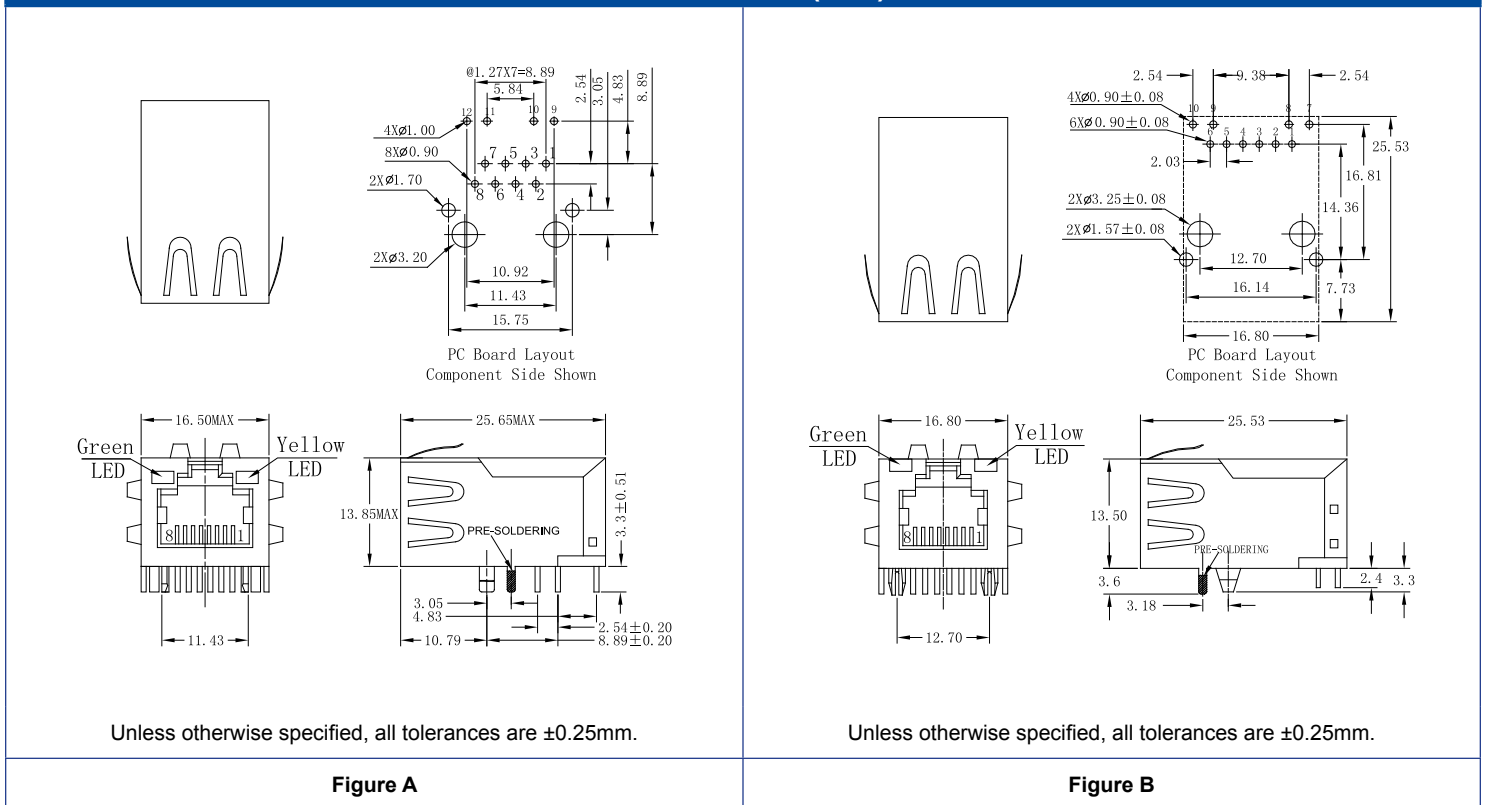


N5447F SERIES

## MATERIAL SPECIFICATION

Housing	Insert	Contact	Shield	Plate (if applicable)
Nylon GF (Fr50) UL94V-0 Standard color: black	Phosphor Bronze C5210 EH Plating 1: Nickel Plating 2: 100% Sn Plating 3: Gold (3u" - 50u")	Phosphor Bronze C5191 Plating 1: Nickel Plating 2: 100% Sn	Brass C2680 Plating: Nickel	PBT GF UL94V-0
<b>Operating Life (MIN)</b>	<b>Storage Temperature</b>	<b>Operating Temperature</b>		
750 Insertions	-40°C to +85°C	0°C to +70°C		

## DIMENSIONS (mm)



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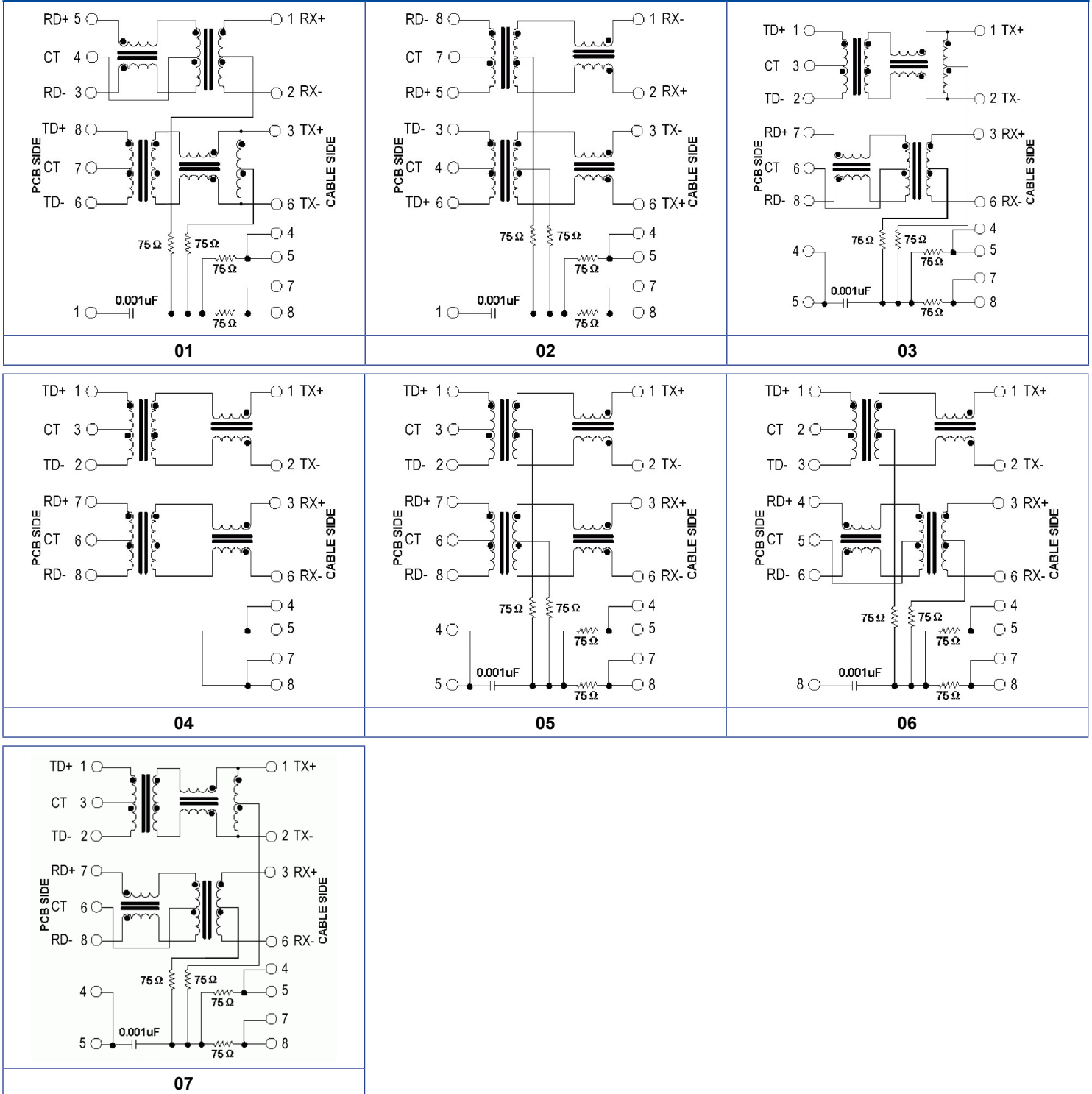
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## N5447F SERIES

### SCHEMATICS



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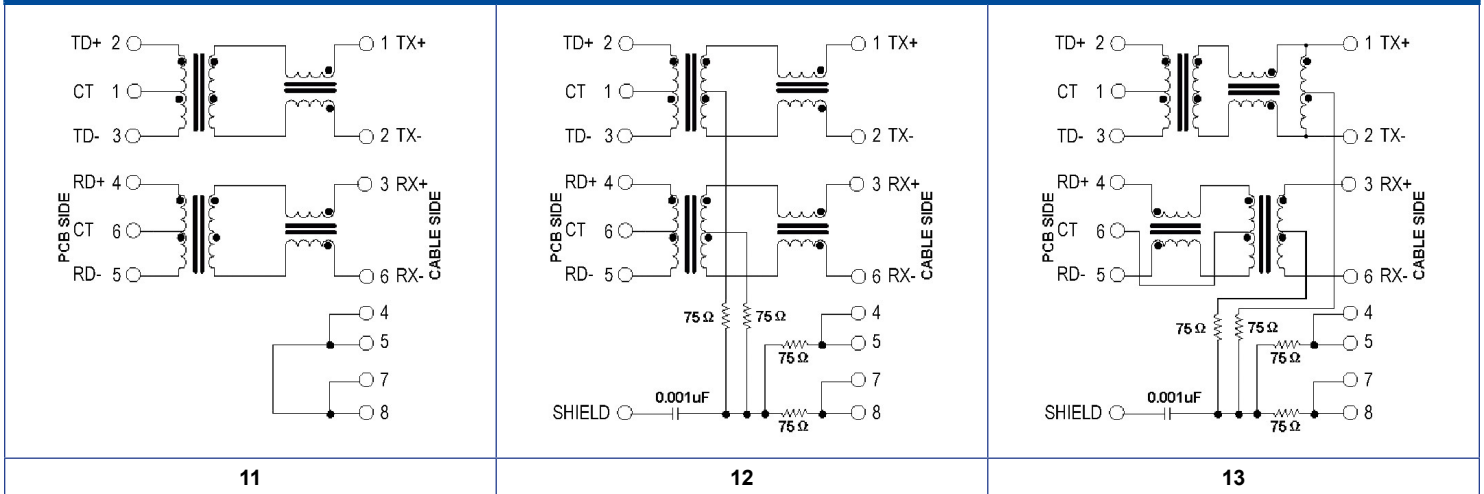
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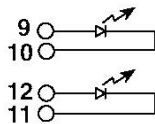


## N5447F SERIES

### SCHEMATICS



### LED SPECIFICATION



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

### LED FOR SCHEMATIC 01-07

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

### LED FOR SCHEMATIC 11-13

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