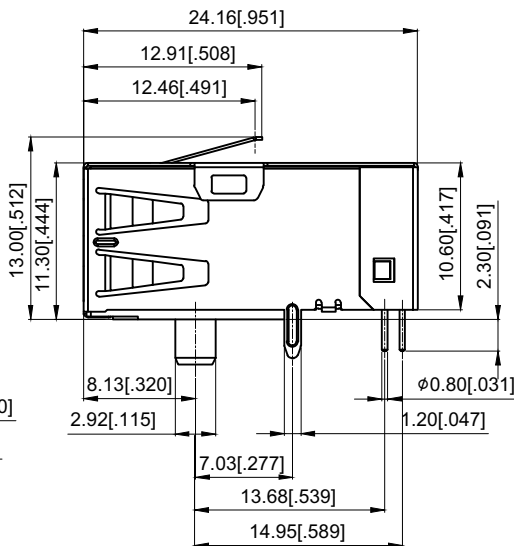
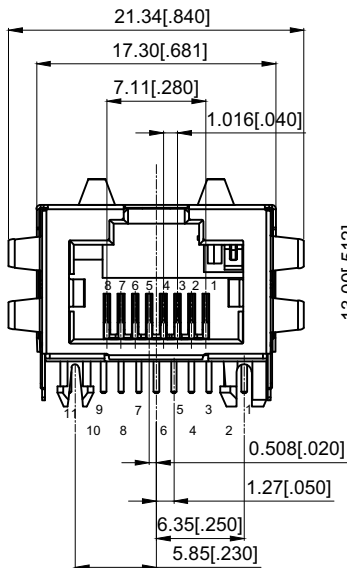
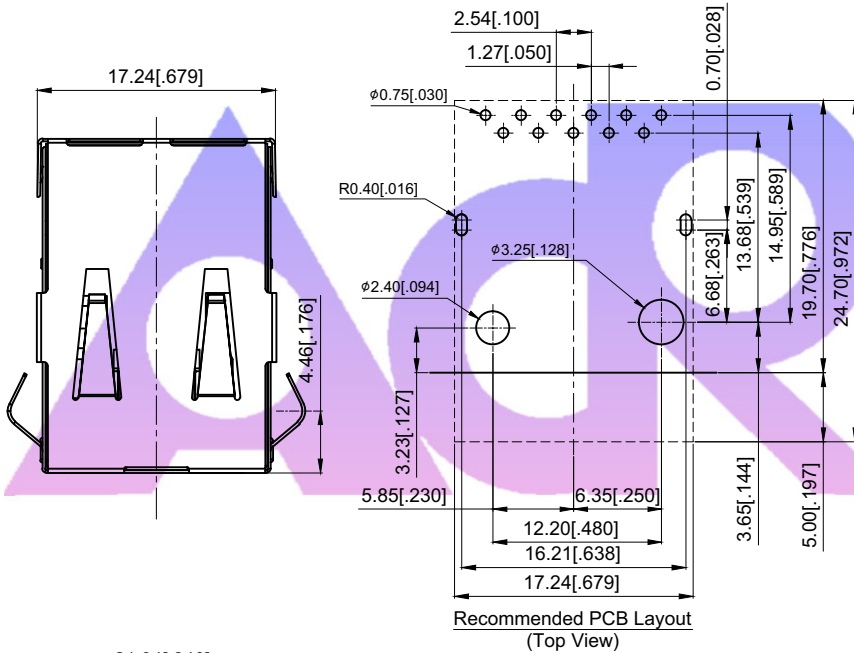
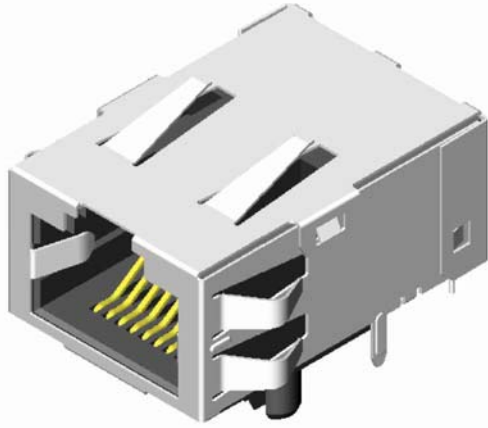


◆ Gigabit Modular Jack Dip Type



Ordering Information:  
RJ21- \* 8 A 2 4 3 2 0  
1

1. Plating Options

A: 50u" Gold in Contact Area

Physical:

◆ Housing & Overmold & Coil Box  
High Temp Thermoplastic, UL94V-0 Rated,  
Black Color

◆ Terminal  
Copper Alloy  
◆ Terminal Plating  
Gold Plating on Contact Area  
Tin Plating on Solder Tails  
Nickel Underplating Overall

◆ Teil  
Copper Alloy  
◆ Teil Plating  
Tin Plating on Solder Tails  
Nickel Underplating Overall

◆ Shell  
Copper Alloy  
◆ Shell Plating  
Tin Plating on Solder Tails  
Nickel Underplating Overall

Mechanical Specifications:

◆ Mate Force  
22N Max.  
◆ Durability  
200 Cycles  
◆ Operating Temperature Rating  
0°C to +70°C

Electrical Specifications:

◆ Rated Voltage  
30V DC  
◆ Rated Current  
1.5A DC  
◆ Contact Resistance  
30 Milliohms Max. Initial  
◆ Dielectric Withstanding Voltage  
500V per Second Max. Ramp  
◆ Insulation Resistance  
1000 Megohms Min.

Magnetic Electrical Specifications:

Impedance: 100 ohms  
Transmit Open Circuit Inductance: 350uH Min. @100kHz  
Turns Ratio(Board:Cable): TX 1:1 RX 1:1  
Transmit Bidirectional all 4 Pairs  
Recieve Bidirectional all 4 Pairs

Dielectric: Cut off Current 1mA Max. in 2250 VDC or 1500 VAC/ 1 Minute

Test Item	Frequency	Specification Requirement
1 Insertion Loss	100KHz	1.2 dB MAXIMUM
	1~125MHz	0.2+0.002*(f MHz)*1.4 dB MAXIMUM
2 Return Loss	0.1~30MHz	16 dB MINIMUM
	30~60MHz	10-20*LOG <sub>10</sub> (f MHz/60) dB MINIMUM
	60~100MHz	10 dB MINIMUM
3 Common Mode to Common Mode Rejection	2~20MHz	35 dB MINIMUM
	20~200MHz	15-20*LOG <sub>10</sub> (f MHz/200) dB MINIMUM
4 Common Mode to Differential Mode Conversion	2~15MHz	40 dB MINIMUM
	16~200MHz	15-20*LOG <sub>10</sub> (f MHz/200) dB MINIMUM
5 Near End Cross-Talk	1~15MHz	35 dB MINIMUM
	16~100MHz	24 dB MINIMUM

