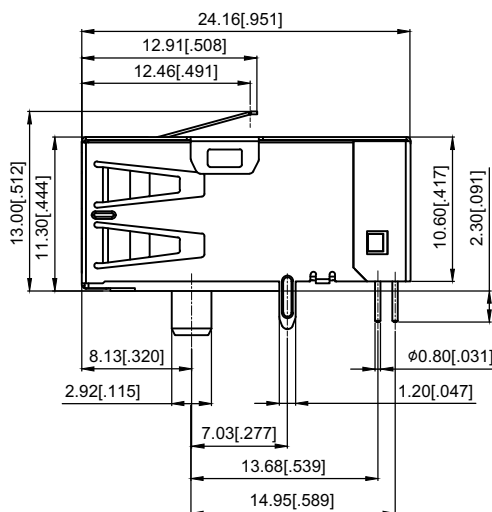
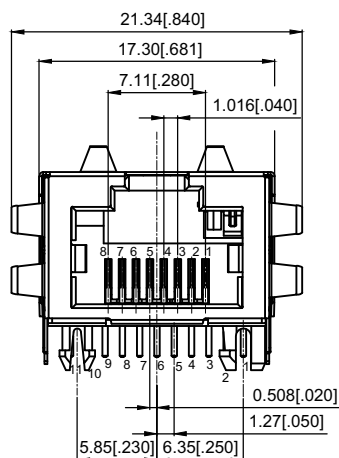
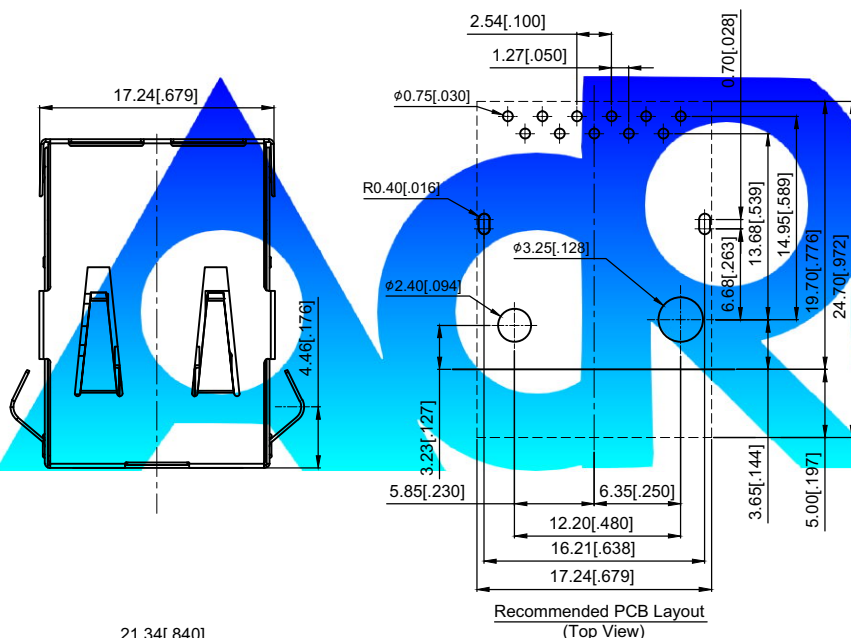
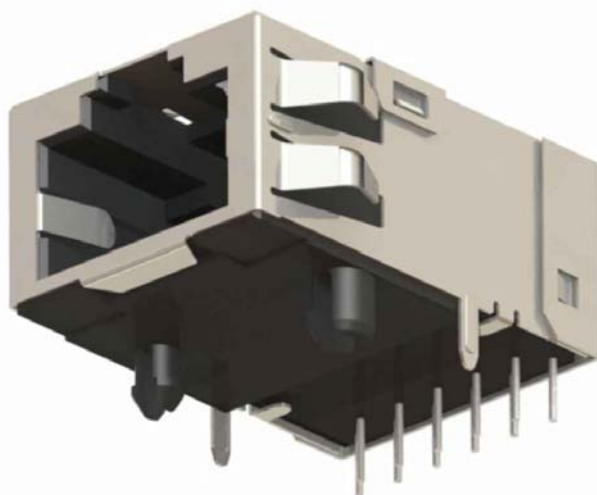


◆ Gigabit Modular Jack Dip Type



Ordering Information:

RJR21-08A24320

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

◆ Receive 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	$0.2+0.002*(f \text{ MHz})^2$ 1.4 dB MAX.
2	Return Loss	0.1~30MHz	16 dB MIN.
		30~60MHz	$10-20*LOG_{10}(f \text{ MHz}/60)$ dB MIN.
		60~100MHz	10 dB MIN.
3	Common Mode to Common Mode Rejection	2~20MHz	35 dB MIN.
		20~200MHz	$15-20*LOG_{10}(f \text{ MHz}/200)$ dB MIN.
4	Common Mode to Differential Mode Conversion	2~15MHz	40 dB MIN.
		16~200MHz	$15-20*LOG_{10}(f \text{ MHz}/200)$ dB MIN.
5	Near End Cross-Talk	1~15MHz	35 dB MIN.
		16~100MHz	24 dB MIN.

PCB SIDE

1 Vcc +1.9V

2 DATA1+

3 DATA1-

4 DATA2+

5 DATA2-

6 GND

7 DATA3+

8 DATA3-

9 DATA4+

10 DATA4-

11 Vcc +1.9V

JACK SIDE

1 DATA1+

2 DATA1-

3 DATA2+

4 DATA2-

5 DATA3+

6 DATA3-

7 DATA4+

8 DATA4-

