

1 PORT RJ-45 JACK WITH 10/100BASE-T MAGNETICS MODULE

P/N: YL-1S072H-36 DATA SHEET(REFERENCE ACUWA AM-001B)



YONGCHENG
ELECTRONIC CORP.

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Feature

- ◆ RJ-45 connector integrated with X'FMR/impedance resistor/high voltage capacitor.
- ◆ Size same as RJ-45 connector to save PCB board space
- ◆ Reduce EMI radiation, improve EMI performance.
- ◆ Pb free Soldering Heat Withstanding
- ◆ Design for 100 BASE transmission over UTP-5 cable.
- ◆ Operating temperature range : 0°C to +70°C.
- ◆ Storage temperature range: 0°C to +85°C.

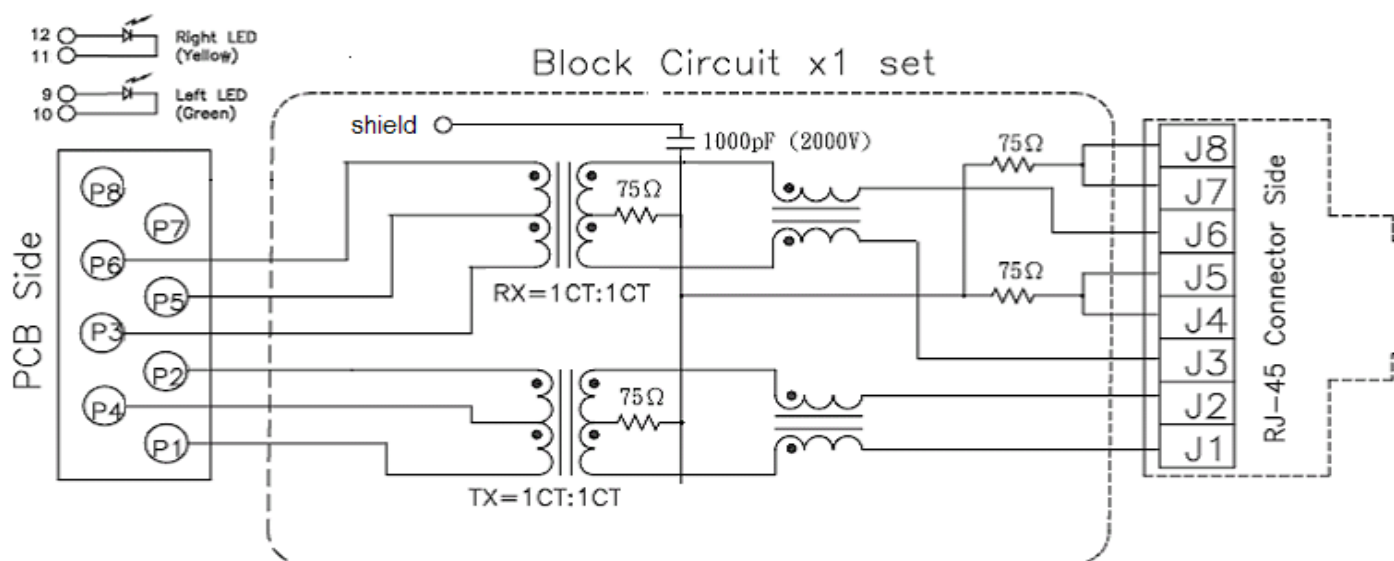
Electrical Specifications @ 25°C

Part Number	Turns Ratio TX/RX(+/-3%)	OCL(uH Min) 100KHz/0.1V with 8Ma DC BIAS	DCR (OHM MAX)		HI-POT (Vrms)
			P1-P3/P4-P6	J1-J2/J3-J6	
YL-1S072H-36	1CT:1CT	350	1.0	1.2	1500

Continue

Part Number	Insertion Loss (dB Max)	Return Loss (dB MIN)			Cross talk (dB TYP)	CMRR (dB TYP)
	0.3-100MHz	1-30MHz	30-60MHz	60-80MHz	1-100MHz	1-100MHz
YL-1S072H-36	-1.0	-20	-15	-10	-30	-30

Schematic



Mechanicals

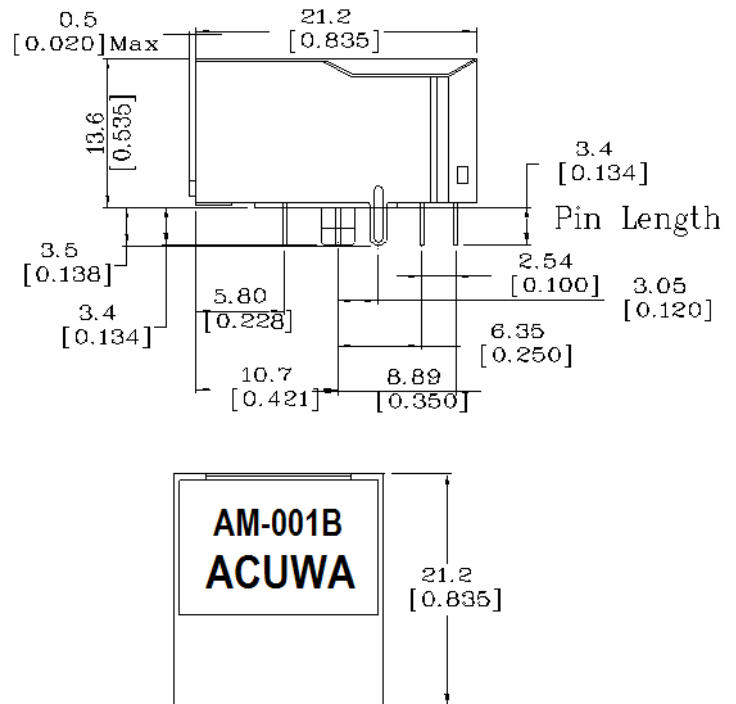
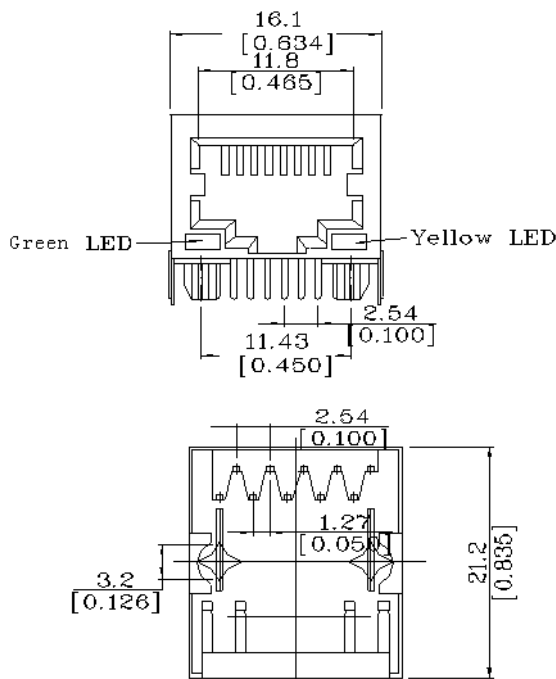
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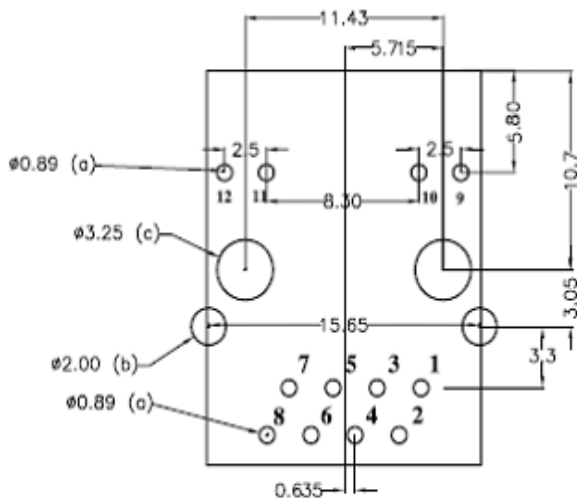
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Dimensions: mm[Inches] Tolerances: ± 0.25 [0.01]

1. Plastic Material : Thermoplastic (UL 94V-0), Black Housing
2. Metal Shield : Brass , 20u inches thick Nickel
3. Spring Wire : 0.45mm Dia. Phosphor bronze with selective gold plating
4. Solder Pin : 0.4x0.4mm, Phosphor bronze with solder Plated
5. Durability : 300 Mating cycles Min.

PCB Layout Mounting Hole (Top View)



TOP VIEW(COMPONENT SIDE)
RECOMMENDED P.C.B. LAYOUT

Note:

1. Holes Type(a) P1-P8 Assign EtherNet
P9-P12 Assign LED
2. Holes Type(b) Assign Shield Cover
3. Holes Type(c) Fix Jack.
4. Holes Tolerances $\begin{matrix} +0.1 \\ -0.000 \end{matrix}$ $\begin{matrix} +0.004 \\ -0.000 \end{matrix}$
5. Holes Pitch Tolerance ± 0.08 $\begin{matrix} +0.003 \\ -0.000 \end{matrix}$