

SINGLE RJ45 CONNECTOR MODULE WITH INTEGRATED 10/100 BASE-TX MAGNETICS

P/N:AM-017



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.

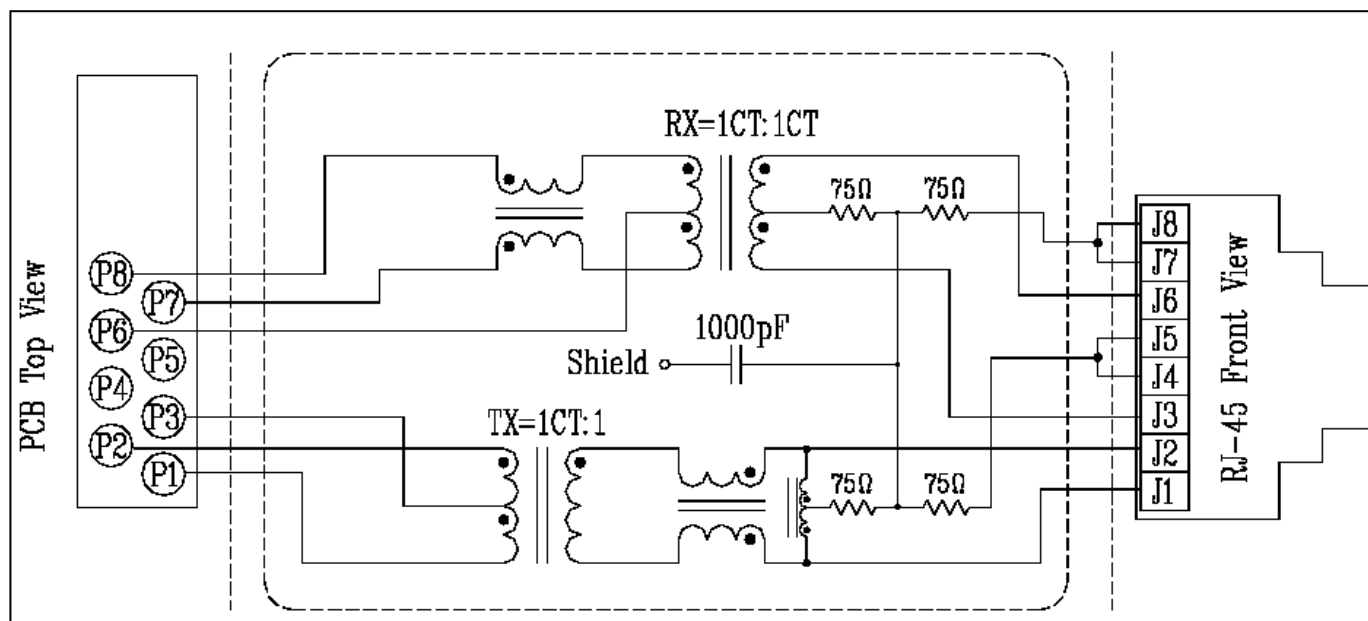
Electrical Specifications @ 25°C

Part Number	Turns Ratio TX/RX(+/-3%)	CW/W (PF MAX)	CMRR (dB MIN)			L/L(uH MAX)	OCL(uH Min) 100KHz/0.1V with 8Ma DC BIAS	HI-POT (Vrms)
			1-30MHz	30-60MHz	60-125MHz			
AM-017	1CT:1/1CT:1CT	28	-30	-25	-20	0.4	350	1500

Continue

Part Number	Insertion Loss (dB Max)	Return Loss (dB MIN)					Cross talk (dB Min)		
	0.3-100MHz	30MHz	40MHz	50MHz	60MHz	80MHz	0.3-30M Hz	30-60M Hz	60-100M Hz
AM-017	-1.15	-16	-14	-13.5	-13	-10	-40	-35	-30

Schematic



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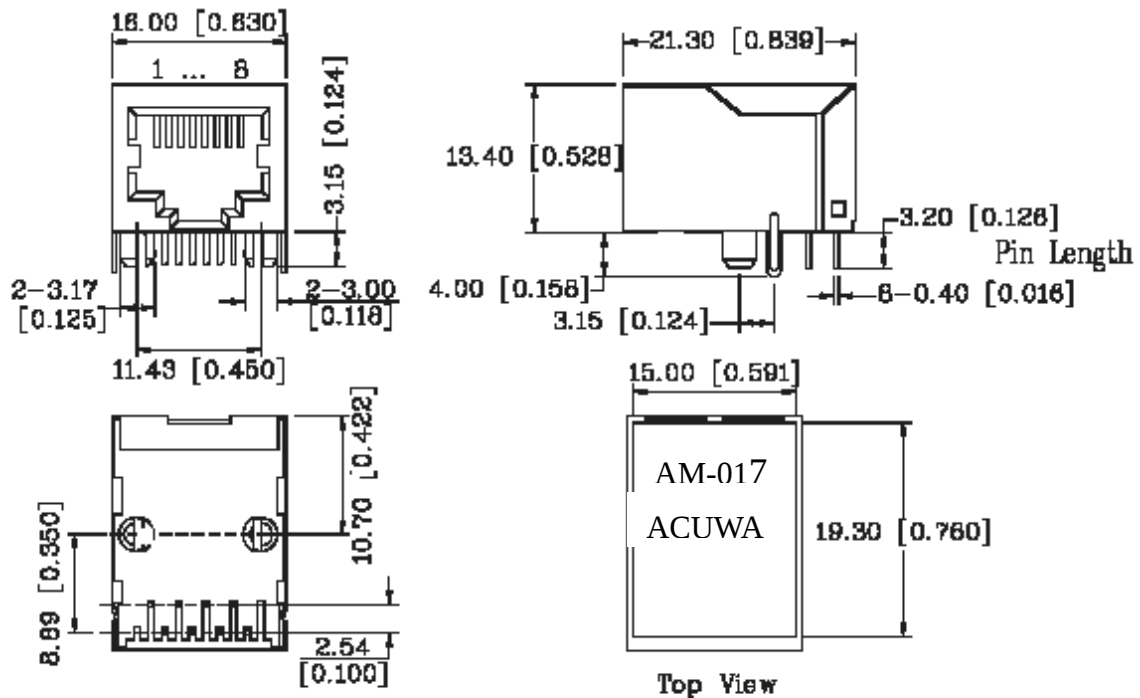
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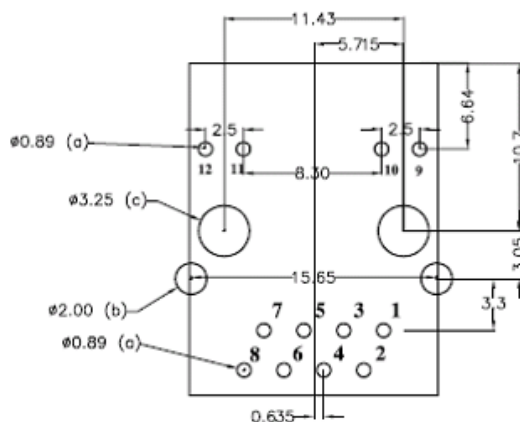
Mechanicals



Units: mm[Inches] Tolerances: xx.x0±0.25[0.010]
0.xx±0.05[0.002]

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 $8^{\circ} \begin{matrix} +0.1 \\ +0.004 \\ 0.000 \end{matrix}$
5. Holes Pitch Tolerance $\pm 0.08 \begin{matrix} +0.003 \\ 0.000 \end{matrix}$