



YONGCHENG

SPECIFICATION FOR APPROVAL

DATE: APR 8, 2009

SAMPLE Q'TY 8 PCS

CUSTOMER : ACUWA

CUSTOMER P/N: AM-015

YONGCHENG P/N : YL-2S036H

DESCRIPTION : 2 PORT RJ-45 JACK With 10/100 Base-T Magnetics Module

APPROVED SIGNATURES	
YONGCHENG APPROVED SIGNATURES	CUSTOMER APPROVED SIGNATURES
APPROVED BY: LiaoZongCheng	APPROVED BY:
DATE: 2009/04/8	DATE:
APPROVED No. :	APPROVED No. :

(ZUNYI)YONGCHENG ENTERPRISE INC.

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SINGLE RJ45 1*2 CONNECTOR MODULE WITH INTEGRATED 10/100 BASE-TX MAGNETICS

P/N:YL-2S036H DATA SHEET(REFERENCE ACUWA AM-015)



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Feature

- ◆ Parts are 100% tin matte finish over necke
- ◆ Reduce EMI radiation, improve EMI performance.
- ◆ Pb free Soldering Heat Withstanding
- ◆ Operating temperature range : 0°C to +70°C .
- ◆ Storage temperature range: 0°C to +85°C .

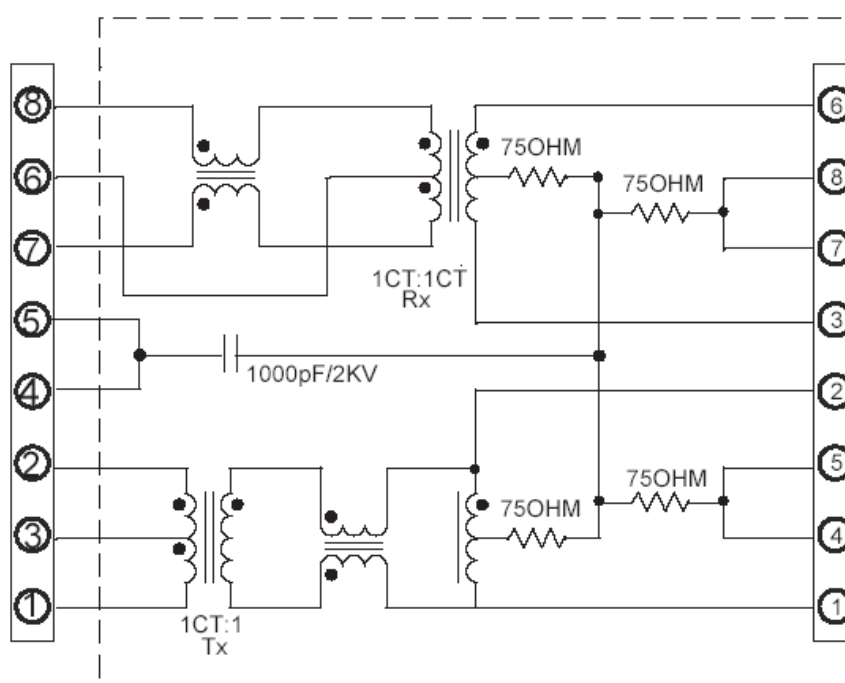
Electrical Specifications @ 25°C

Part Number	Turns Ratio (+/-3%)		HI-POT (Vrms)	Cross talk (dB MIN)			OCL(uH Min) 100KHz/0.1V with 8Ma DC BIAS
	TX	RX		1-30MHz	30-60MHz	60-100MHz	
YL-2S036H	1CT:1	1CT:1CT	1500	-40	-35	-30	350

Continue

Part Number	Insertion Loss (dB Max)	Return Loss (dB MIN)			CMRR (dB Min)
	1-100MHz	1-30MHz	30-60MHz	60-80MHz	1-100MHz
YL-2S036H	-1.0	-18	-16	-12	-35

Schematic



Approved by.:LiaoZongCheng

Checked by. :

Prepared by :Liqing

A0(07/01)

**SINGLE RJ45 1*2 CONNECTOR MODULE WITH INTEGRATED
10/100 BASE-TX MAGNETICS**

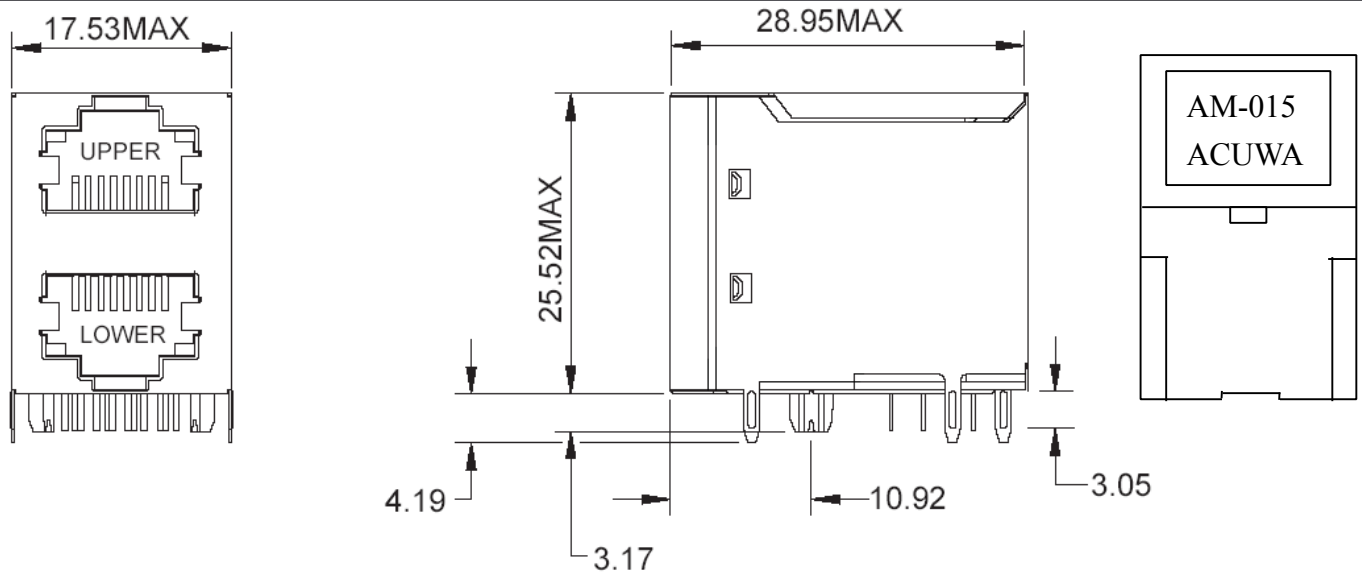
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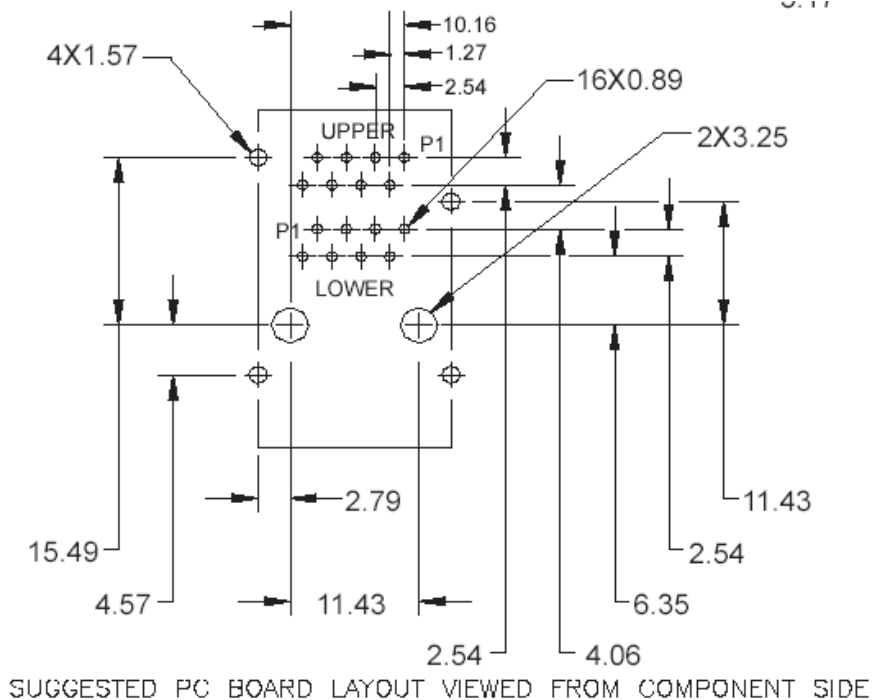
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Mechanicals



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)



SUGGESTED PC BOARD LAYOUT VIEWED FROM COMPONENT SIDE

Approved by.:LiaoZongCheng

Checked by. :

Prepared by :Liqing

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SAMPLES TEST REPORT



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PART NO.		AM-015		DATE			2009/4/8				
DESCRIPTION		2 PORT RJ-45 JACK With 10/100 Base-T Magnetics Module									
ITEM	TEST EQUIPMENTS	TEST CONDITION @ 25°C	SAMPLES NO. TEST PIN	1	2	3	4	5	SPECIFICATION		
									Min	Typ	Max
OCL (uH MIN)	3250	100KHz/0.1V with 8mA DC BIAS	P1-P2	412	525	466	513	478	350		
			P7-P8	409	536	478	496	458			
Insertion Loss (dB MAX)	8711/8712	1-100 MHz	P1-P2 TO J1-J2	0.72	0.65	0.71	0.63	0.77	-1.0		
			P7-P8 TO J3-J6	0.76	0.72	0.68	0.65	0.62			
CMRR (dB MIN)	8711/8712	1-100MHz	P1-P2 TO J1-J2	PASS	PASS	PASS	PASS	PASS	-35		
			P7-P8 TO J3-J6	PASS	PASS	PASS	PASS	PASS			
HI-POT(Vrms)	GPI-5005T	1500Vrms	PRI/SEC	PASS	PASS	PASS	PASS	PASS	6S		
TURN RATIO (+/-3%)	CA8120A	1MHz/sine wave	P1-P2:J1-J2	PASS	PASS	PASS	PASS	PASS	1CT:1		
			P7-P8:J3-J6	PASS	PASS	PASS	PASS	PASS	1CT:1CT		
Return Loss(dB MIN)	8711/8712	1-30 MHz	P1-P2 TO J1-J2	PASS	PASS	PASS	PASS	PASS	-18		
			P7-P8 TO J3-J6	PASS	PASS	PASS	PASS	PASS			
		30-60 MHz	P1-P2 TO J1-J2	PASS	PASS	PASS	PASS	PASS	-16		
			P7-P8 TO J3-J6	PASS	PASS	PASS	PASS	PASS			
		60 -80MHz	P1-P2 TO J1-J2	PASS	PASS	PASS	PASS	PASS	-12		
			P7-P8 TO J3-J6	PASS	PASS	PASS	PASS	PASS			
Cross Talk (dB MIN)	8711/8712	1-30 MHz	TX TO RX	PASS	PASS	PASS	PASS	PASS	-40		
		30-60MHz	TX TO RX	PASS	PASS	PASS	PASS	PASS	-35		
		60-100 MHz	TX TO RX	PASS	PASS	PASS	PASS	PASS	-30		