



YONGCHENG

SPECIFICATION FOR APPROVAL

DATE: AUG 05, 2009

SAMPLE Q'TY 6 PCS

CUSTOMER : ACUWA

CUSTOMER P/N: AM-006A

YONGCHENG P/N : YL-1S038H

DESCRIPTION : 1 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: 2009/08/05	DATE:
APPROVED No. :	APPROVED No. :

(ZUNYI)YONGCHENG ENTERPRISE INC.

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

P/N: YL-1S038H DATA SHEET(REFERENCE ACUWAAM-006A)



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Page : 1/5

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: -40°C to +85°C.

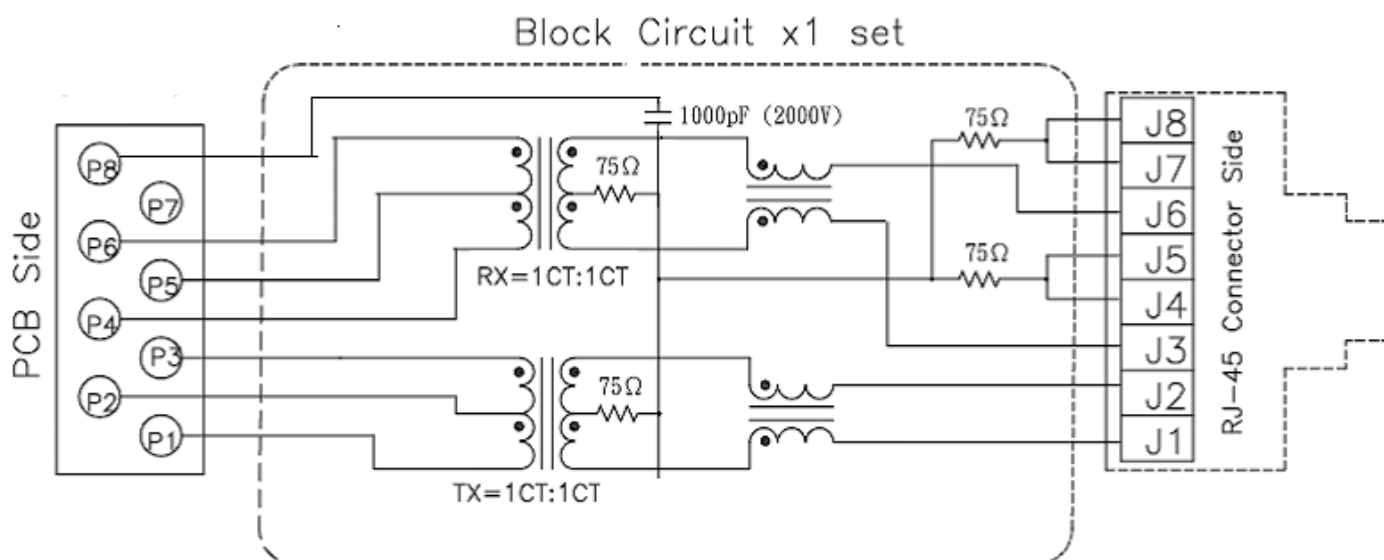
Electrical Specifications @ 25°C

Part Number	OCL(uH Min) 100KHz/0.1V with 8Ma DC BIAS	Turns Ratio (+/-3%)		HI-POT (Vrms)
		TX	RX	
YL-1S038H	350	1CT:1CT	1CT:1CT	1500

Continue

Part Number	Insertion Loss (dB Max)	Return Loss (dB MIN)			Cross talk (dB TYP)	CMRR (dB TYP)
	1-100MHz	1-30MHz	30-60MHz	60-80MHz	1-100MHz	1-100MHz
YL-1S038H	-1.0	-18	-16	-12	-30	-30

Schematic



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

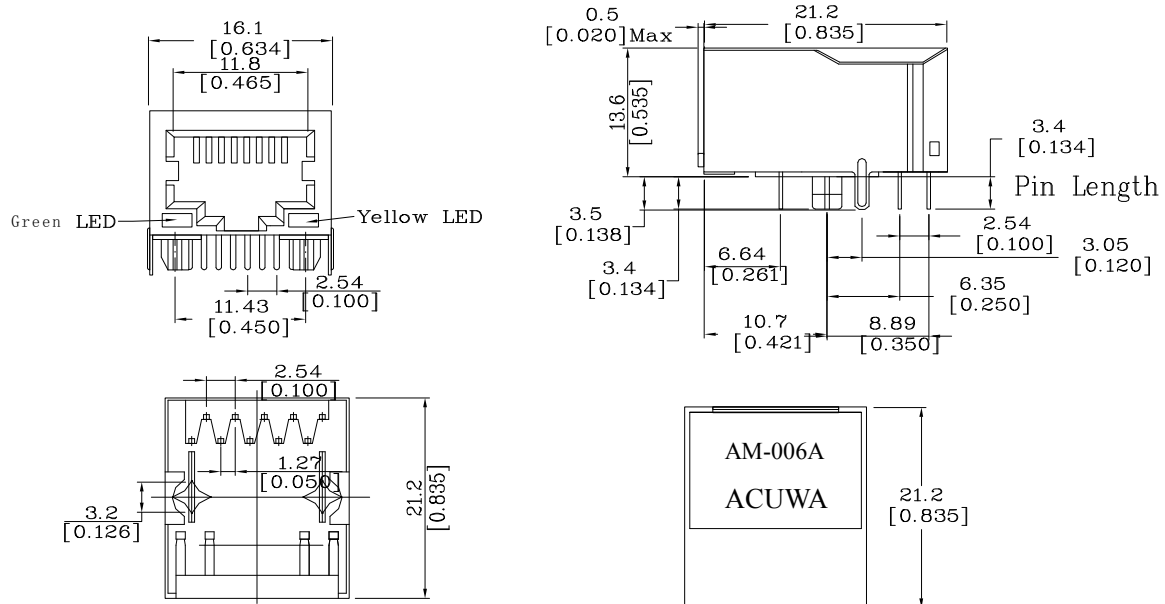
P/N: YL-1S038H DATA SHEET(REFERENCE ACUWAAM-006A)



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Page : 2/5

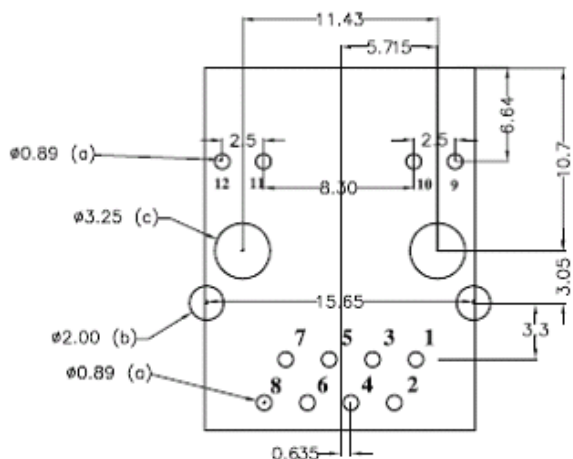
Mechanicals



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 $\phi \begin{matrix} +0.1 \\ -0.000 \end{matrix}$
5. Holes Pitch Tolerance ± 0.08 [± 0.003].

Acuwa

PART NO.		AM-006A		DATE			2009/8/5				
DESCRIPTION		1 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-P3	418	396	469	512	483	350		
			P4-P6	438	472	501	488	457			
HI-POT(Vrms)	GPI-5005T	1500Vrms	PRI/SEC	PASS	PASS	PASS	PASS	PASS	1S		
TURN RATIO (+/-3%)	CA8120A	1MHz/sine wave	P1-P3:J1-J2	PASS	PASS	PASS	PASS	PASS	1CT:1CT		
			P4-P6:J3-J6	PASS	PASS	PASS	PASS	PASS			
Insertion Loss (dB MAX)	8711/8712	1-100 MHz	P1-P3 TO J1-J2	-0.82	-0.86	-0.9	-0.84	-0.79	-1.0		
			P4-P6 TO J3-J6	-0.78	-0.83	-0.89	-0.84	-0.85			
Return Loss(dB MIN)	8711/8712	1-30 MHz	P1-P3 TO J1-J2	-24.5	-23.9	-25.1	-23.6	-24.1	-18		
			P4-P6 TO J3-J6	-25.3	-24.6	-23.5	-23.9	-24.3			
		30-60 MHz	P1-P3 TO J1-J2	-20.6	-19.8	-20.2	-19.1	-19.5	-16		
			P4-P6 TO J3-J6	-19.3	-20.4	-19.0	-19.6	-20.0			
		60-80MHz	P1-P3 TO J1-J2	-16.1	-15.6	-15.9	-14.8	-15.5	-12		
			P4-P6 TO J3-J6	-15.3	-15.7	-14.6	-15.9	-16.2			
CMRR (dB TYP)	8711/8712	1-100 MHz	P1-P3 TO J1-J2	-51.2	-52.6	-52.1	-51.6	-52.9	-30		
			P4-P6 TO J3-J6	-50.8	-51.5	-51.3	-52.7	-52.1			
Cross Talk (dB TYP)	8711/8712	1-100 MHz	TX TO RX	-51.5	-50.5	-49.8	-50.8	-51.2	-30		

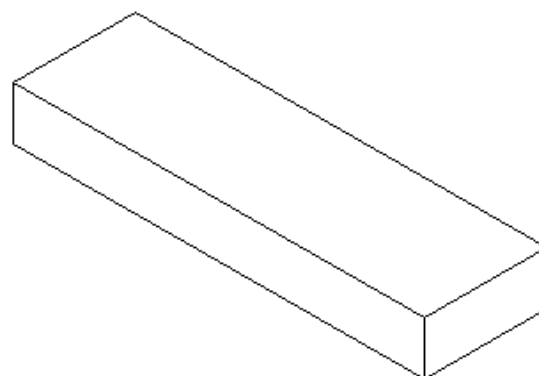
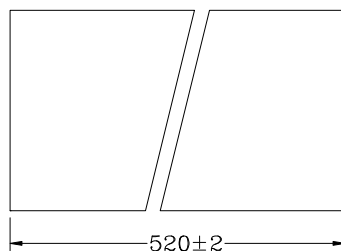
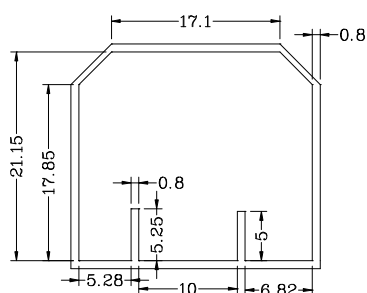


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SAMPLES PACK SPECIFICATIONS

Page: 5/5

CUSTOMER	ACUWA	CUST P/N.	AM-006A
ITEM	TRANSFORMER	DESCRIPTION	YL-1S038H
PART NO.	868-00880	DATE	2009/08/05

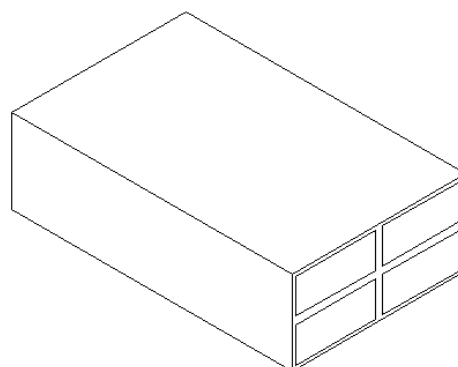
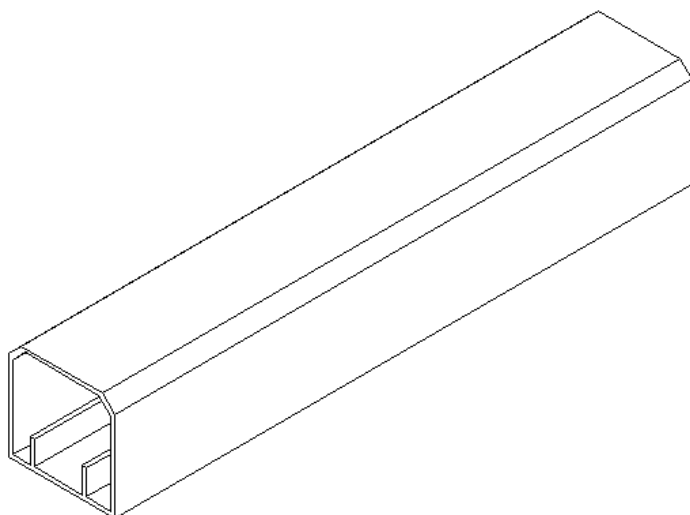


Units:mm Tolerances: xx.xx0±0.25

x.x0±0.25

TUBE MECHANICAL DIMENSION

INNER CARTON :540*160*70



TUBE =30 PCS

INNER CARTON=18 TUBE=18*30=540 PCS

EXPORT CAPTON : 560*340*160

EXPORT CARTON=4INNER CARON=4*540=2160 PCS

REMARK:	APPROVAL	CHECKED	DRAWN BY
	LiaoZongCheng		Qingxiaobin