



YONGCHENG

SPECIFICATION FOR APPROVAL

DATE: APR 18, 2009

SAMPLE Q'TY 5 PCS

CUSTOMER : ACUWA

CUSTOMER P/N: AM-016

YONGCHENG P/N : YL-1T036H-63

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: 2009/04/18	DATE:
APPROVED No. :	APPROVED No. :

(ZUNYI)YONGCHENG ENTERPRISE INC.

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

P/N:YL-1T036H-63 DATA SHEET(REFERENCE ACUWA AM-016)



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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.

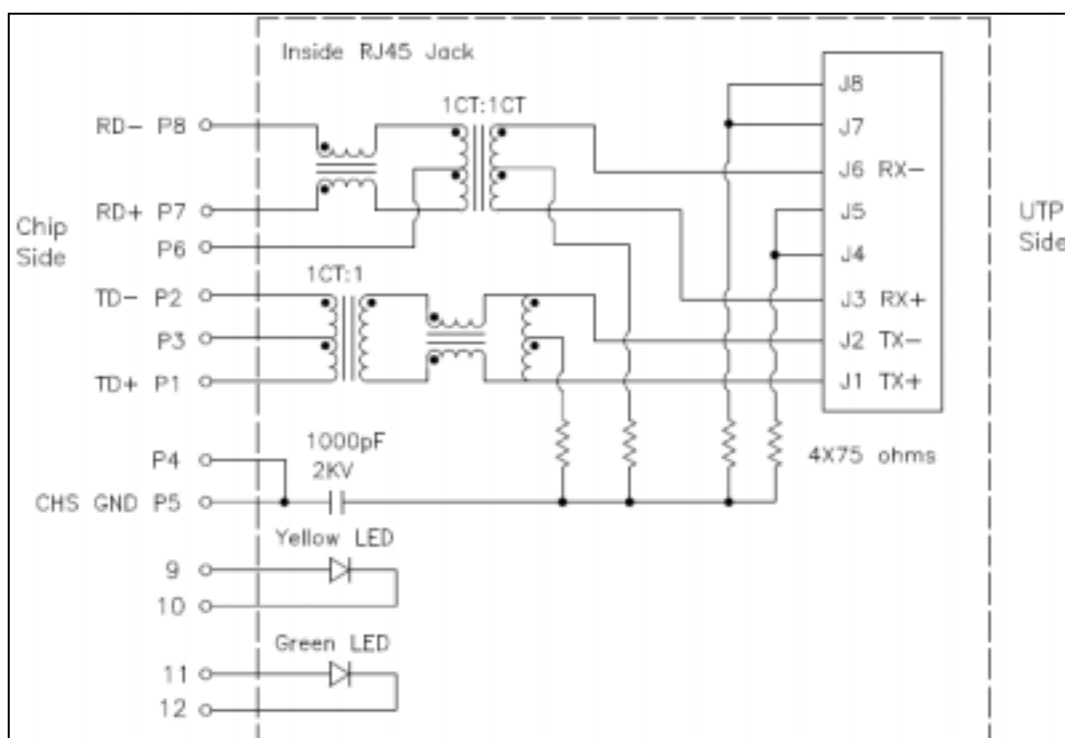
Electrical Specifications @ 25°C

Part Number	Turns Ratio (+/-3%)		Cross talk (dB Min)	OCL(uH Min) 100KHz/0.1V with 8Ma DC BIAS	HI-POT (Vrms)
	TX	RX			
YL-1T036H-63	1CT:1	1CT:1CT	1-100MHz -35	350	1500

Continue

Part Number	Insertion Loss (dB Max)	Return Loss (dB MIN)			CMRR (dB MIN)
	1-100MHz	1-10MHz	30-60MHz	60-80MHz	1-100MHz
YL-1T036H-63	-1.0	-18	-16	-12	-30

Schematic



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

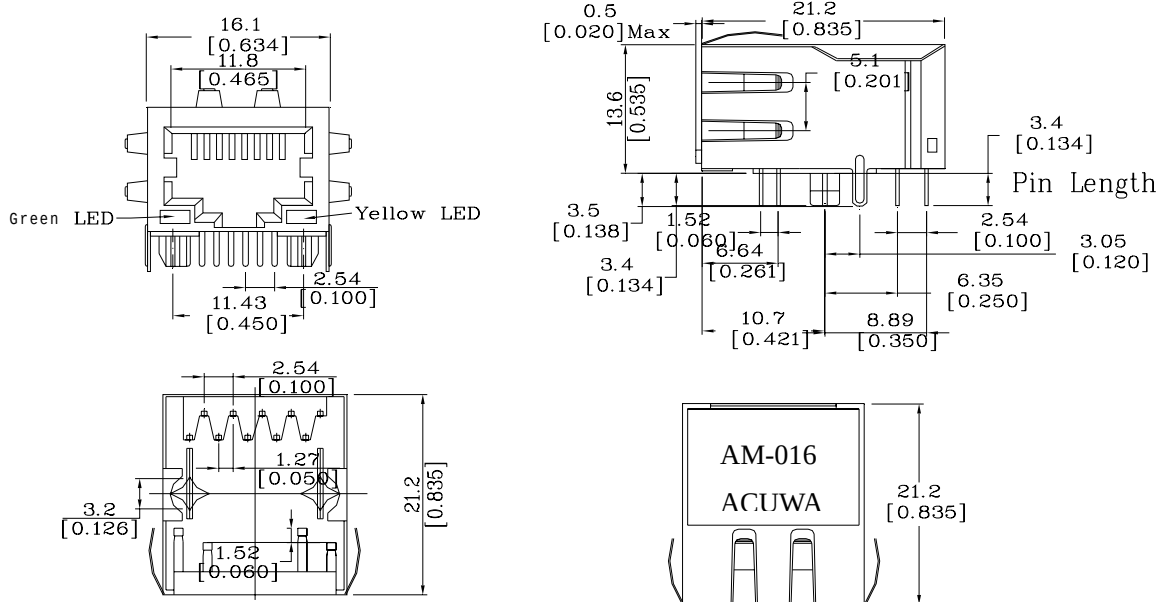
P/N:YL-1T036H-63 DATA SHEET(REFERENCE ACUWA AM-016)



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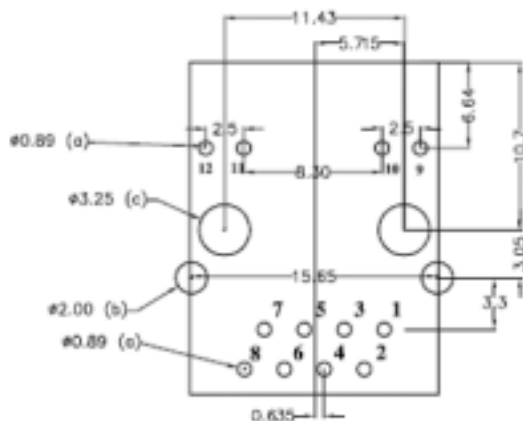
Mechanicals



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 ± 0.1 [0.004]
- 5.Holes Pitch Tolerance ± 0.08 [± 0.003].

SAMPLES TEST REPORT



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PART NO.		AM-016		DATE			2009/4/18						
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-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					
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	1-100 MHz	TX TO RX	PASS	PASS	PASS	PASS	PASS	-35				
CMRR (dB MIN)	8711/8712	1-100MHz	P1-P2 TO J1-J2	PASS	PASS	PASS	PASS	PASS	-30				
			P7-P8 TO J3-J6	PASS	PASS	PASS	PASS	PASS					
HI-POT(Vrms)	GPI-5005T	1500Vrms	PRI/SEC	PASS	PASS	PASS	PASS	PASS	1S				
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				

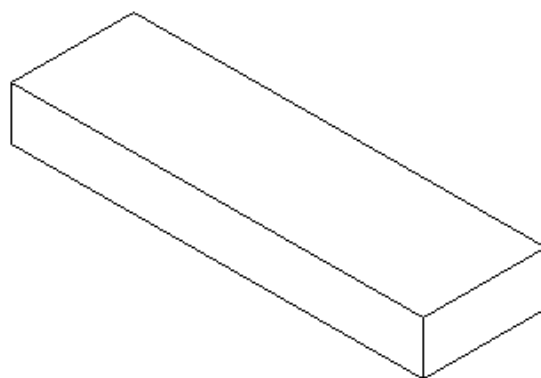
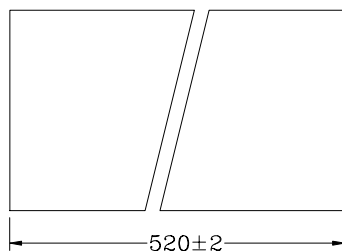
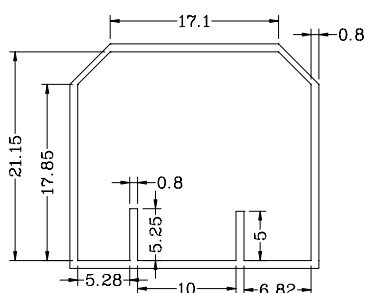


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SAMPLES PACK SPECIFICATIONS

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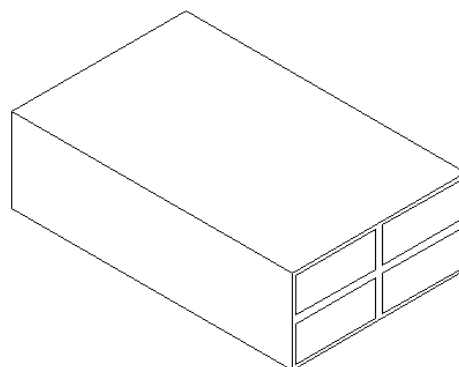
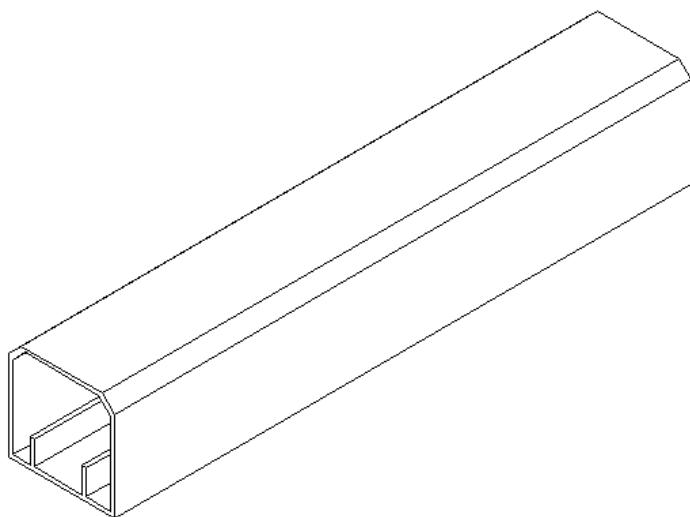
CUSTOMER	ACUWA	CUST P/N.	AM-016
ITEM	TRANSFORMER	DESCRIPTION	YL-1T036H-63
PART NO.	868-00520	DATE	2009/04/18



Units:mm Tolerances: xx.xx0±0.25
x.x0±0.25

TUBE MECHANICAL DIMENSION

INNER CARTON :540*160*70



TUBE =22 PCS

INNER CARTON=18 TUBE=18*22=396 PCS

EXPORT CAPTON : 560*340*160

EXPORT CARTON=4INNER CARON=4*396=1584 PCS

REMARK:	APPROVAL	CHECKED	DRAWN BY
	LiaoZongCheng		Qingxiaobin