



YONGCHENG

SPECIFICATION FOR APPROVAL

DATE: AUG 30 2009

SAMPLE Q'TY 6 PCS

CUSTOMER : ACUWA

CUSTOMER P/N: AM-018

YONGCHENG P/N : YL-1T050H-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: 2009/08/30	DATE:
APPROVED No. :	APPROVED No. :

(ZUNYI)YONGCHENG ENTERPRISE INC.

LanGongShan,ZunYi City,GuiZhou,China

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**Feature**

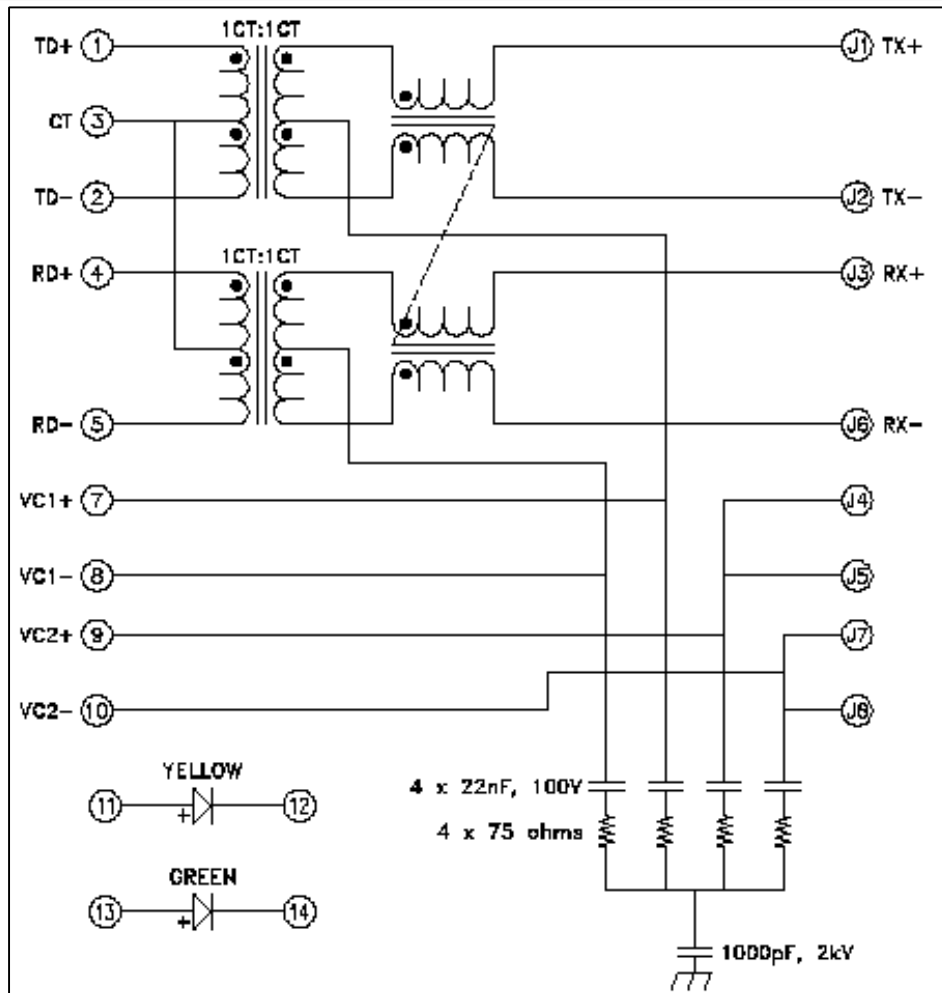
- ◆ Size same as RJ-45 connector to save PCB board space
- ◆ Reduce EMI radiation, improve EMI performance.
- ◆ Pb free Soldering Heat Withstanding
- ◆ Operating temperature range : 0°C to +70°C.
- ◆ Storage temperature range: 0°C to +85°C.

Electrical Specifications @ 25°C

Part Number	Turns Ratio TX/RX(+/-2%)	HI-POT (Vrms)	Cross talk (dB MIN)	OCL(uH Min) 100KHz/0.1V with 8Ma DC BIAS
			1-100MHz	
YL-1T050H-63	1CT:1CT	1500	-35	350

Continue

Part Number	Insertion Loss (dB Max)	Return Loss (dB MIN)				CMRR (dB MIN)
	1-100MHz	1-30MHz	40-45MHz	45-60MHz	60-80MHz	1-100MHz
YL-1T050H-63	-1.0	-18	-16	-14	-12	-35

Schematic

P/N:YL-1T050H-63 DATA SHEET(REFERENCE ACUWA AM-018)



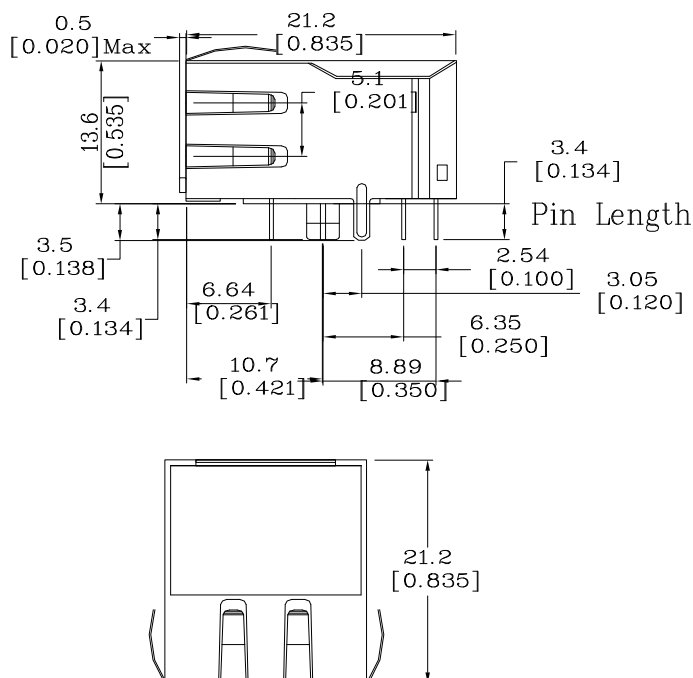
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Page : 2/5

Figure 1: Mechanical drawing of the LED module. The drawing shows two views of the module. The top view is a plan view showing the layout of the LEDs and the dimensions of the module. The bottom view is a side view showing the profile of the module. Dimensions are given in millimeters (mm) and inches (in).

Key dimensions and features:

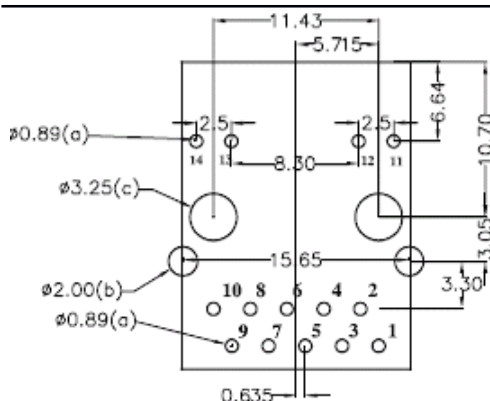
- Top View (Plan View):**
 - Overall width: 16.1 mm [0.634 in]
 - Distance between LED centers: 11.8 mm [0.465 in]
 - LED pitch: 2.54 mm [0.100 in]
 - Distance from center to edge: 11.43 mm [0.450 in]
 - LED pitch (bottom): 2.54 mm [0.100 in]
- Bottom View (Side View):**
 - Overall height: 21.2 mm [0.835 in]
 - LED pitch (top): 2.54 mm [0.100 in]
 - LED pitch (bottom): 1.27 mm [0.050 in]
 - Distance from center to edge (left): 3.2 mm [0.126 in]
- Labels:**
 - Yellow LED
 - Green LED



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-P10 Assign EtherNet
Holes Type(a) P12-P14 Assign LED
2. Holes Type(b) Assign Shield Cover
3. Holes Type(c) Fix Jack.
4. Holes Tolerances $\begin{matrix} +0.1 \\ 0 \end{matrix} \begin{bmatrix} +0.004^* \\ 0.000^* \end{bmatrix}$.
5. Holes Pitch Tolerance $\pm 0.08 \begin{bmatrix} \pm 0.003^* \end{bmatrix}$

SAMPLES TEST REPORT



Page :2/6

PART NO.		AM-018		DATE			2009/08/30					
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	418	396	469	512	483	350			
			P4-P5	438	472	501	488	457				
CMRR (dB MIN)	8711/8712	1-100 MHz	P1-P2 TO J1-J2	PASS	PASS	PASS	PASS	PASS	-35			
			P4-P6 TO J3-J6	PASS	PASS	PASS	PASS	PASS				
Cross talk (dB MIN)	8711/8712	1-100 MHz	P1-P2 & J1-J2 TO P4-P6 & J3-J6	PASS	PASS	PASS	PASS	PASS	-35			
HI-POT(Vrms)	GPI-5005T	1500Vrms	PRI/SEC	PASS	PASS	PASS	PASS	PASS	1S			
TURN RATIO (+/-2%)	CA8120A	1MHz/sine wave	P1-P2:J1-J2	PASS	PASS	PASS	PASS	PASS	1CT: 1CT			
			P4-P5:J3-J6	PASS	PASS	PASS	PASS	PASS	1CT:1CT			

Acuwa

PART NO.		AM-018		DATE			2009/08/30					
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	
Insertion Loss (dB MAX)	8711/8712	1-100 MHz	P1-P2 TO J1-J2	-0.82	-0.86	-0.9	-0.84	-0.79	-1.0			
			P4-P65TO J3-J6	-0.78	-0.83	-0.89	-0.84	-0.85				
Return Loss(dB MIN)	8711/8712	1-30 MHz	P1-P2 TO J1-J2	-24.5	-23.9	-25.1	-23.6	-24.1	-18			
			P4-P65TO J3-J6	-25.3	-24.6	-23.5	-23.9	-24.3				
		40-45 MHz	P1-P2 TO J1-J2	-20.6	-19.8	-20.2	-19.1	-19.5	-16			
			P4-P65TO J3-J6	-19.3	-20.4	-19.0	-19.6	-20.0				
		45-60 MH	P1-P2 TO J1-J2	-17.6	-16.9	-17.2	-16.3	-16.7	-14			
			P4-P65TO J3-J6	-17.3	-17.6	-16.8	-17.5	-17.4				
		60-80MHz	P1-P2 TO J1-J2	-16.1	-15.6	-15.9	-14.8	-15.5	-12			
			P4-P65TO J3-J6	-15.3	-15.7	-14.6	-15.9	-16.2				

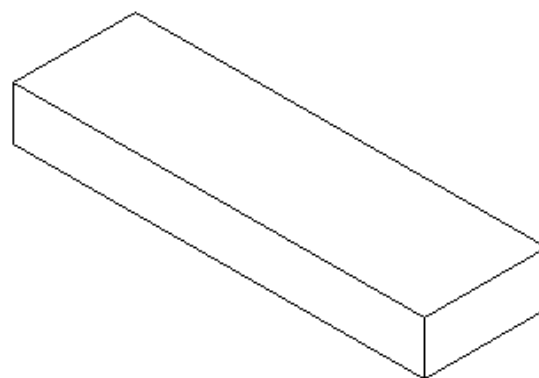
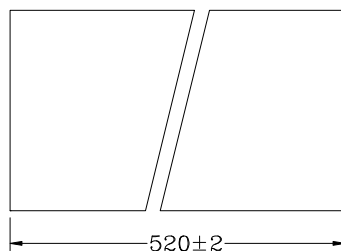
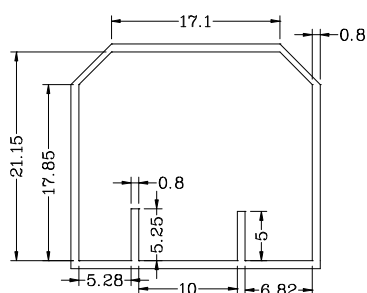


YONGCHENG ELECTRONIC CORP.

SAMPLES PACK SPECIFICATIONS

Page: 5/5

CUSTOMER	ACUWA	CUST P/N.	AM-018
ITEM	TRANSFORMER	DESCRIPTION	YL-1T050H-63
PART NO.	868-00370	DATE	2009/08/30

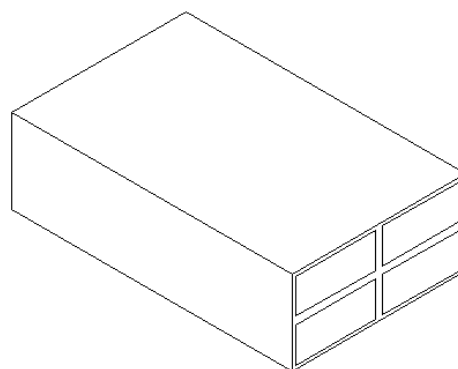
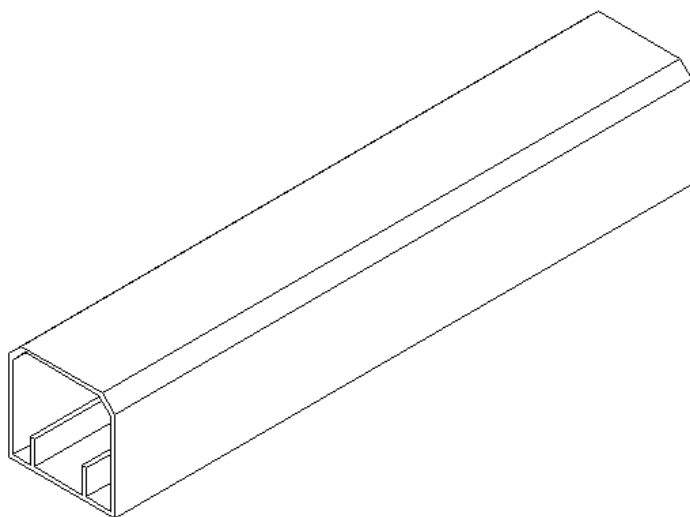


Units:mm Tolerances: xx.xx0±0.25

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