



YONGCHENG

SPECIFICATION FOR APPROVAL

DATE: AUG 05, 2009

SAMPLE Q'TY 6 PCS

CUSTOMER : ACUWA

CUSTOMER P/N: AM-019

YONGCHENG P/N : YL-1T051G-36

DESCRIPTION : 1 PORT RJ-45 JACK With 1000 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.

LanGongShan,ZunYi City,GuiZhou,China

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1 PORT RJ-45 JACK WITH 1000BASE-T MAGNETICS MODULE

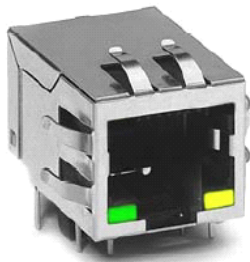
P/N: YL-1T051G-36 DATA SHEET(REFERENCE ACUWA AM-019)



YONGCHENG
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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
- ◆ Operating temperature range : 0℃ to +70℃.
- ◆ Storage temperature range: 0℃ to +85℃.

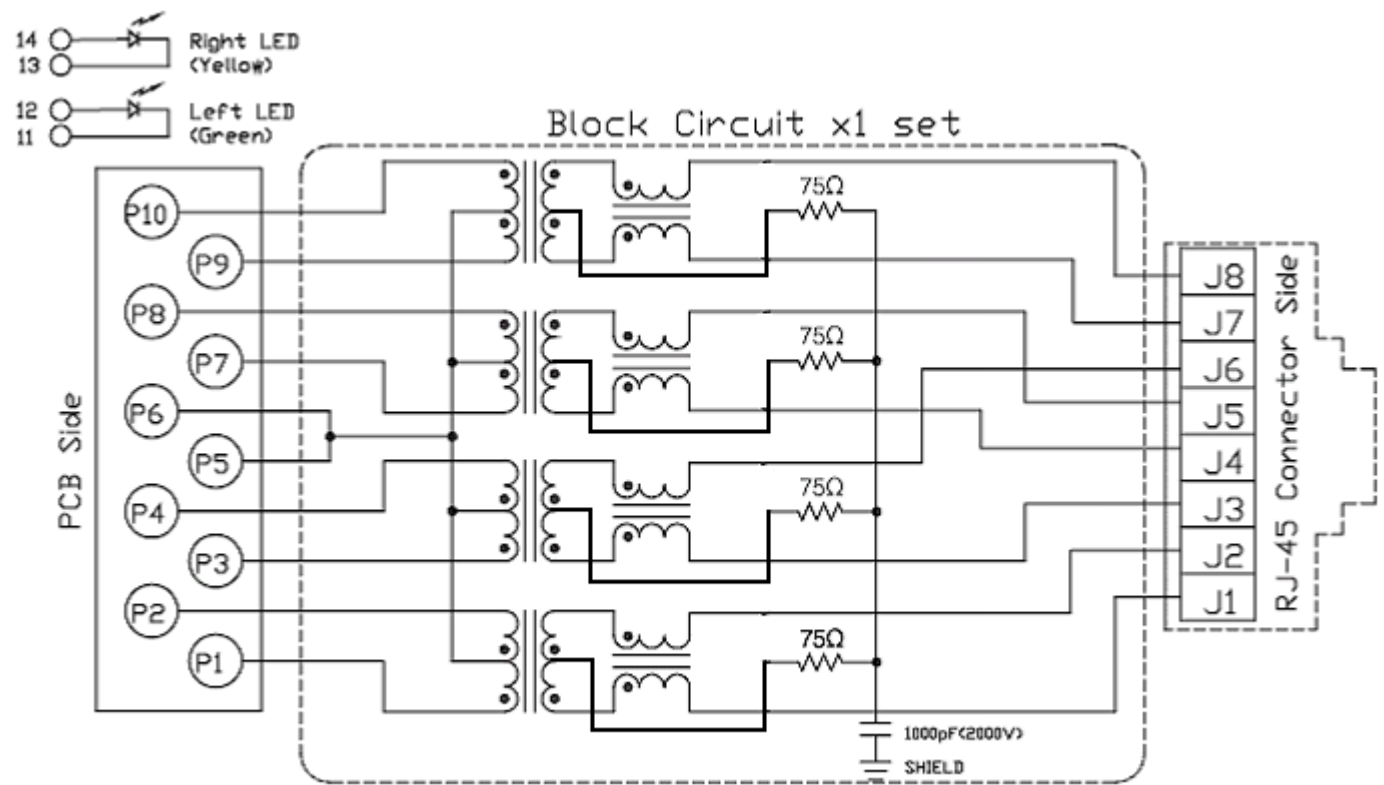
Electrical Specifications @ 25℃

Part Number	Turns Ratio (+/-3%)	RISE TIME (10-90%)	HI-POT (Vrms)	OCL(uH Min) 100KHz/0.1V with 8Ma DC BIAS
YL-1T051G-36	1CT:1CT	2.5 ns TYP	1500	350

Continue

Part Number	Insertion Loss (dB Max)	Return Loss (dB MIN)				
	0.1-100MHz	1-30MHz	40MHz	50MHz	60-80MHz	100MHz
YL-1T051G-36	-1.0	-18	-14	-13	-12	-10

Schematic



1 PORT RJ-45 JACK WITH 1000BASE-T MAGNETICS MODULE

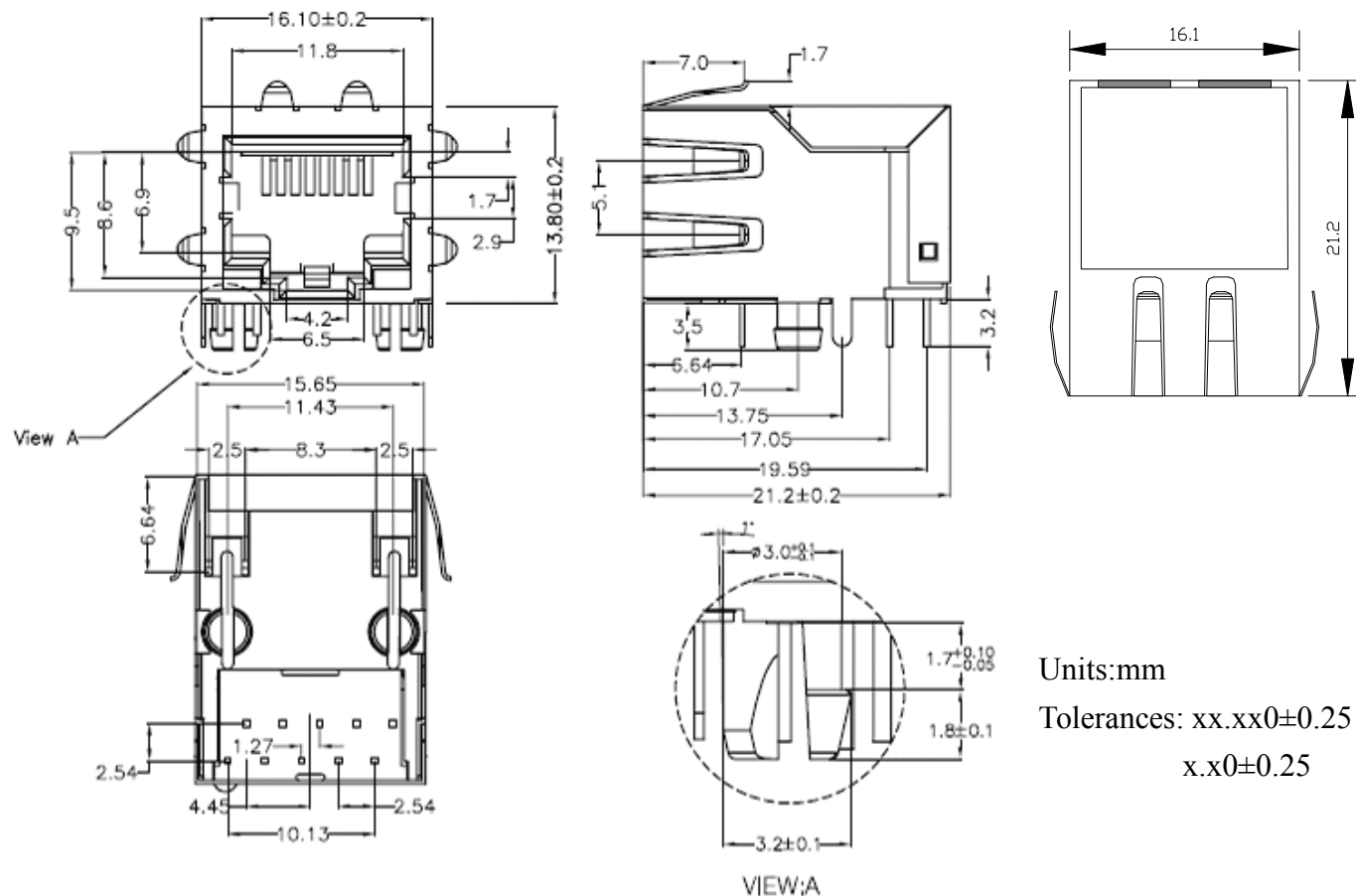
P/N: YL-1T051G-36 DATA SHEET(REFERENCE ACUWA AM-019)



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Mechanicals



1. Plastic Material : Thermoplastic (UL 94V-0), Black Housing

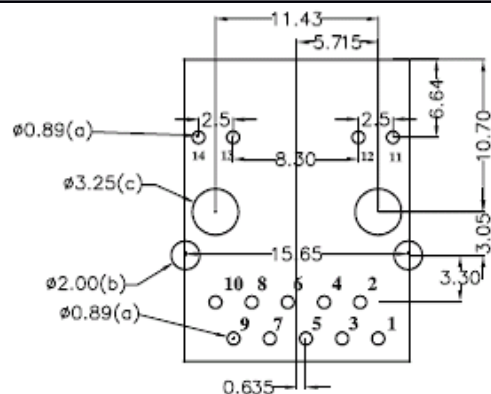
2. Metal Shield : Brass , 20u inches thick Nickel

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)



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 $\begin{matrix} +0.1 \\ 0 \end{matrix} \begin{matrix} +0.004 \\ 0.000 \end{matrix}$
- 5.Holes Pitch Tolerance $\pm 0.08 \begin{matrix} \pm 0.003 \end{matrix}$

SAMPLES TEST REPORT



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PART NO.		AM-019		DATE			2009/08/05					
DESCRIPTION		1 PORT RJ-45 JACK WITH 1000BASE-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	436	389	418	398	350			
			P3-P4	428	416	409	436	451				
			P7-P8	442	419	438	385	467				
			P9-P10	419	405	438	442	406				
Insertion Loss (dB MAX)	8711/8712	0.1-100 MHz	P1-P2 TO J1-J2	-0.81	-0.78	-0.91	-0.86	-0.85	-1.0			
			P3-P4 TO J3-J6	-0.83	-0.84	-0.85	-0.85	-0.88				
			P7-P8 TO J4-J5	-0.86	-0.76	-0.82	-0.82	-0.83				
			P9-P10 TO J7-J8	-0.93	-0.89	-0.85	-0.78	-0.86				
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			
			P3-P4 : J3-J6	PASS	PASS	PASS	PASS	PASS				
			P7-P8 : J4-J5	PASS	PASS	PASS	PASS	PASS				
			P9-P10 : J7-J8	PASS	PASS	PASS	PASS	PASS				

SAMPLES TEST REPORT



PART NO.		AM-019		DATE			2009/08/05					
DESCRIPTION		1 PORT RJ-45 JACK WITH 1000BASE-T MAGNETICS MODULE										
ITEM	TEST EQUIPMENTS	TEST CONDITION @ 25°C	SAMPLES NO. TEST PIN	1	2	3	4	5	SPECIFICATION			
			Min						Typ	Max		
Return Loss(dB MIN)	8711/8712	1-30 MHz	P1-P2 TO J1-J2	-23.5	-25.1	-24.1	-25.2	-24.6	-18			
			P3-P4 TO J3-J6	-23.9	-23.9	-23.9	-23.8	-24.9				
			P7-P8 TO J4-J5	-25.5	-24.3	-24.7	-23.6	-23.9				
			P9-P10 TO J7-J8	-24.5	-24.2	-25.3	-24.6	-23.7				
		40 MHz	P1-P2 TO J1-J2	-19.1	-18.9	-19.5	-20.3	-18.6	-14			
			P3-P4 TO J3-J6	-19.7	-19.6	-20.0	-19.5	-18.8				
			P7-P8 TO J4-J5	-20.1	-20.2	-19.2	-19.8	-18.4				
			P9-P10 TO J7-J8	-19.3	-19.3	-19.5	-20.4	-20.0				
		50 MHz	P1-P2 TO J1-J2	-16.2	-16.2	-15.9	-16.8	-16.3	-13			
			P3-P4 TO J3-J6	-16.9	-16.1	-16.8	-16.9	-16.6				
			P7-P8 TO J4-J5	-16.1	-16.5	-16.7	-16.2	-15.9				
			P9-P10 TO J7-J8	-16.3	-16.8	-15.8	-16.0	-15.5				
		60-80MHz	P1-P2 TO J1-J2	-15.1	-14.8	-15.3	-14.6	-13.9	-12			
			P3-P4 TO J3-J6	-14.5	-14.8	-15.2	-14.6	-14.7				
			P7-P8 TO J4-J5	-15.1	-15.5	-13.8	-14.6	-15.7				
			P9-P10 TO J7-J8	-14.6	-15.2	-13.8	-13.9	-14.7				
		100 MHz	P1-P2 TO J1-J2	-12.5	-11.9	-13.1	-12.5	-12.2	-10			
			P3-P4 TO J3-J6	-12.7	-11.6	-13.2	-12.7	-12.5				
			P7-P8 TO J4-J5	-11.8	-12.8	-12.2	-13.0	-12.6				
			P9-P10 TO J7-J8	-12.3	-12.9	-12.5	-12.8	-12.2				

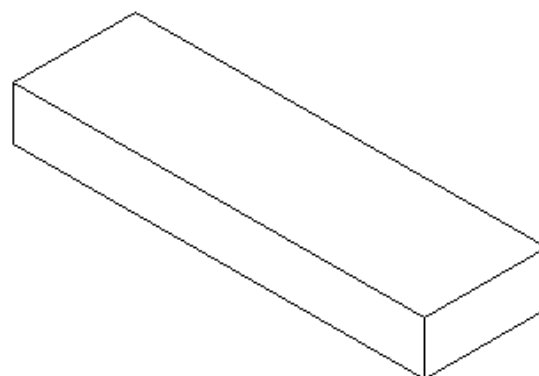
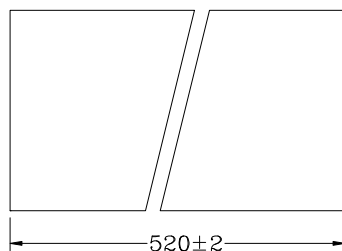
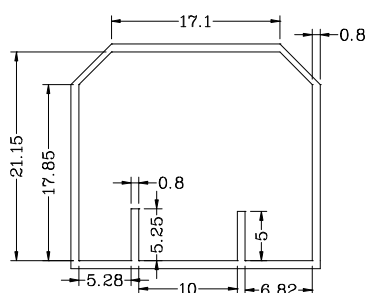


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SAMPLES PACK SPECIFICATIONS

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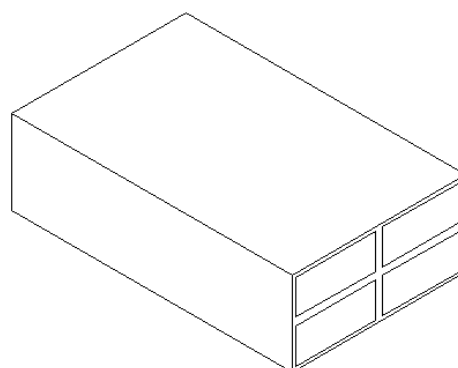
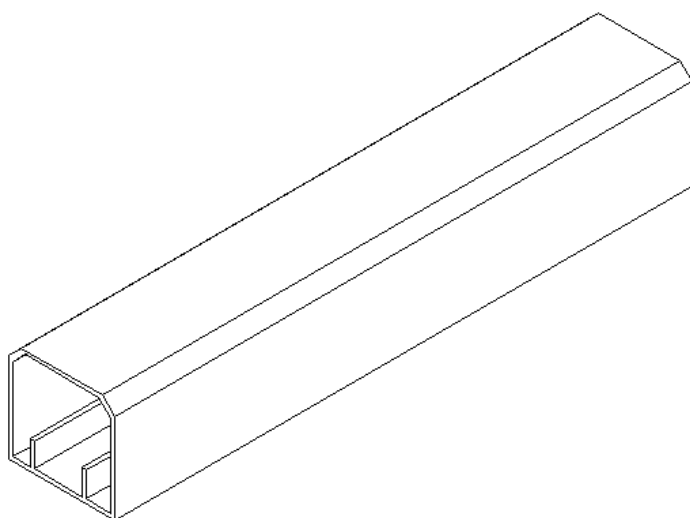
CUSTOMER	ACUWA	CUST P/N.	AM-019
ITEM	TRANSFORMER	DESCRIPTION	YL-1T051G-36
PART NO.	868-01080	DATE	2009/08/05



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