



YONGCHENG

SPECIFICATION FOR APPROVAL

DATE: MAR 30, 2009

SAMPLE Q'TY 10 PCS

CUSTOMER : ACUWA

CUSTOMER P/N: APL-015A

YONGCHENG P/N : YH-16D03AR

DESCRIPTION : 10/100 BASE-TX TRANSFORMER

APPROVED SIGNATURES	
YONGCHENG APPROVED SIGNATURES	CUSTOMER APPROVED SIGNATURES
APPROVED BY: LiaoZongCheng	APPROVED BY:
DATE: 2009/03/30	DATE:
APPROVED No. :	APPROVED No. :

(ZUNYI)YONGCHENG ENTERPRISE INC.

LanGongShan,ZunYi City,GuiZhou,China

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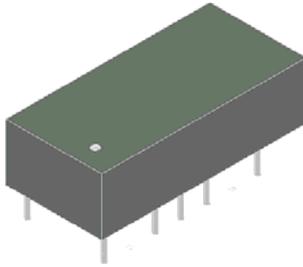
10/100 BASE-TX TRANSFORMER

P/N:YH-16D03AR DATA SHEET(REFERENCEACUWA APL-015A)



YONGCHENG
ELECTRONIC CORP.

Feature



- ◆ Designed to meet IEEE802.3u requirement
- ◆ Pb free Soldering Heat Withstanding
- ◆ Operating temperature range : 0°C to +70°C.
- ◆ Storage temperature range: 0°C to +100°C.

Electrical Specifications @ 25°C

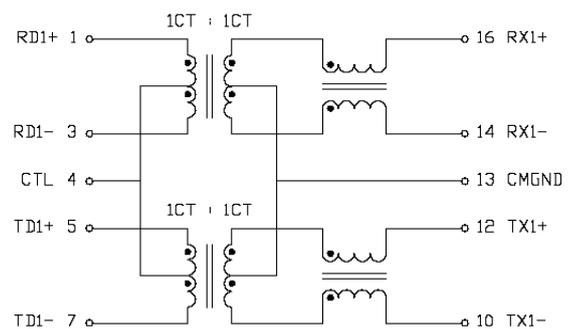
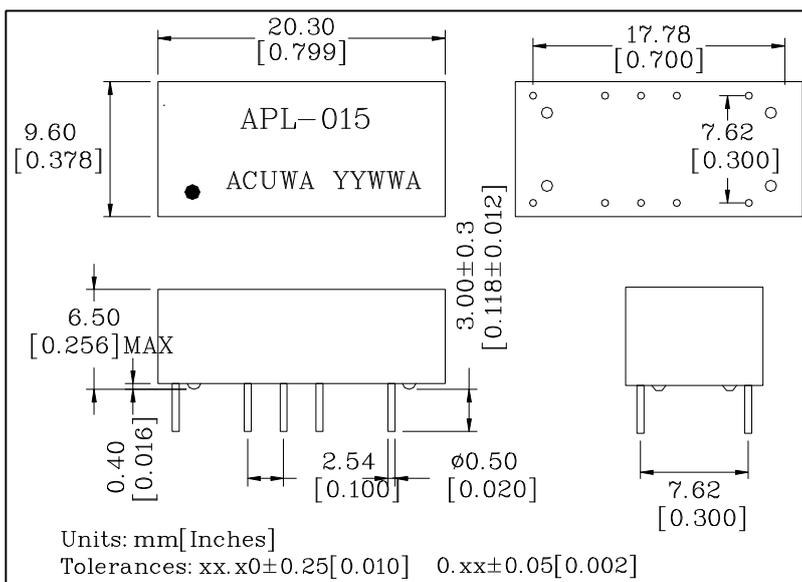
Part Number	Turns Ratio TX/RX(+/-5%)	HI-POT (Vrms)	OCL(uH Min) 100KHz/0.1V with 8mA/DC Bias	CW/W TX/RX(pF TYP)	PRI DCR (OHM Max)	CMRR (dB MIN)	Cross talk (dB Min)
						0.1-100MHz	0.1-100MHz
YH-16D03AR	1CT:1CT	1500	350	20	0.9	-40	-38

Continue

Part Number	Insertion Loss (dB Max)	Return Loss (dB Min)				RISE TIME&Fall Time (ns Max)
		1-100MHz	0.5-30MHz	40MHz	50MHz	
YH-16D03AR	-1.1	-18	-15	-13	-11	5

Mechanical

Schematic



Approved by.:LiaoZongCheng

Checked by. :

Prepared by :Liqing

SAMPLES TEST REPORT



PART NO.		APL-015A		DATE					2009/03/30		
DESCRIPTION		10/100BASE-TX TRANSFORMER									
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	1-3	485	518	436	498	426	350		
			5-7	434	479	526	493	471			
HI-POT(Vrms)	GPI-5005T	1500Vrms	PRI/SEC	PASS	PASS	PASS	PASS	PASS	1S		
DCR (OHM Max)	3250		1-3	0.42	0.41	0.46	0.45	0.44	0.9		
			5-7	0.45	0.42	0.43	0.41	0.45			
CW/W (pF TYP)	3250	100KHz/0.1V	4-13	35	38	36	39	42	20		
Cross Talk (dB MIN)	8711/8712	0.1-100 MHz	TX OR RX	-48.6	-47.7	-47.1	-49.2	-48.8	-38		
TURN RATIO (+/-5%)	CA8120A	1MHz/sine wave	1-3:16-14	1.001	0.999	0.999	1.000	1.001	1CT:1CT		
			5-7:12-10	0.999	1.000	1.000	0.999	0.999			
Insertion Loss (dB MAX)	8711/8712	1-100 MHz	TX	-0.51	-0.68	-0.59	-0.62	-0.65	-1.1		
			RX	-0.75	-0.66	-0.57	-0.77	-0.59			
Return Loss(dB MIN)	8711/8712	0.5-30 MHz	TX	-23.7	-24.1	-24.8	-25.5	-25.1	-18		
			RX	-24.6	-25.5	-24.8	-23.9	-25.3			
		40 MHz	TX	-17.2	-18.8	-17.6	-16.9	-18.3	-15		
			RX	-18.5	-18.6	-17.9	-17.3	-17.4			
		50 MHz	TX	-15.6	-14.9	-15.8	-15.2	-16.3	-13		
			RX	-16.1	-15.8	-15.5	-14.9	-15.2			
		60-80 MHz	TX	-14.2	-13.9	-14.5	-13.8	-12.9	-11		
			RX	-13.6	-14.2	-14.4	-13.3	-13.6			
CMRR (dB MIN)	8711/8712	0.1-100 MHz	TX	-54.6	-53.2	-54.8	-53.9	-52.7	-40		
			RX	-53.6	-52.4	-54.7	-53.1	-50.9			

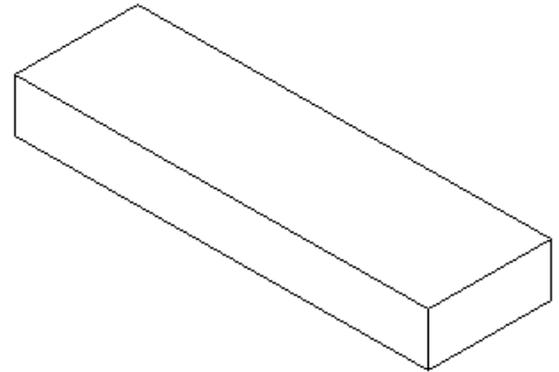
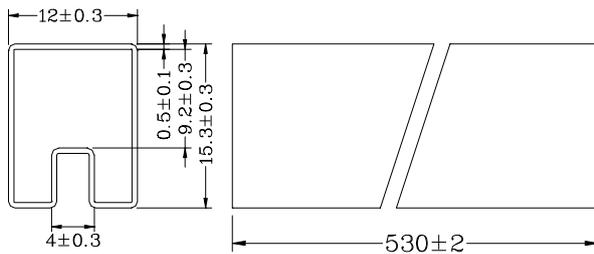


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SAMPLES PACK SPECIFICATIONS

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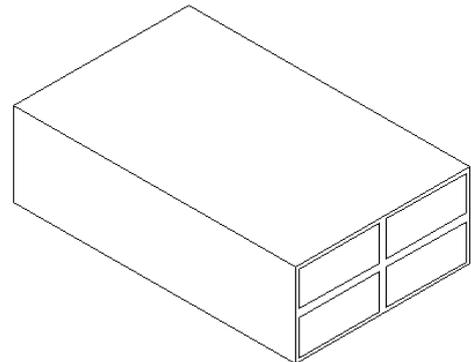
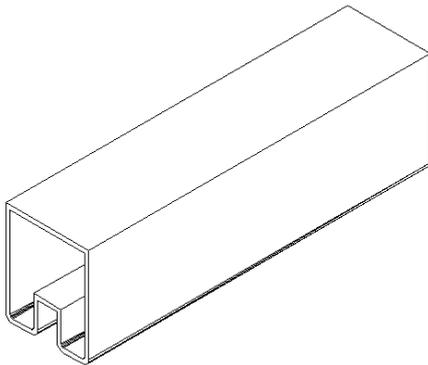
CUSTOMER	ACUWA	CUST P/N.	APL-015A
ITEM	TRANSFORMER	DESCRIPTION	YH-16D03AR
PART NO.	818-00190	DATE	2009/03/30



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

TUBE MECHANICAL DIMENSION

INNER CARTON :540*160*70



TUBE =25 PCS

INNER CARTON=50 TUBE=50*25=1250PCS

EXPORT CAPTON : 565*345*165

EXPORT CARTON=4INNER CARON=4*1250=5000PCS

REMARK:	APPROVAL	CHECKED	DRAWN BY
	LiaoZongCheng		Liqing