



SPECIFICATION FOR APPROVAL

DATE: December 6, 2008

SAMPLE Q'TY 11 PCS

CUSTOMER : ACUWA

CUSTOMER P/N: AF-010A

MFILTER P/N : TM1692S

DESCRIPTION : 10/100 PC CARD SMD TRANSFORMER MODULE

APPROVED SIGNATURES	
MFILTER APPROVED SIGNATURES	CUSTOMER APPROVED SIGNATURES
APPROVED BY: 唐海英	APPROVED BY:
DATE: 2008-12-06	DATE:
APPROVED No. :	APPROVED No. :

MFILTER(KAI PING) ENTERPRISE INC.

NO.15,ChongCheng Industray.DuCheng Road,ChangSha,Kaiping City,Guangdong,China

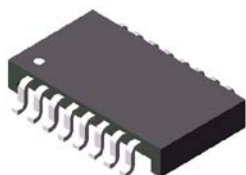
Fax:0750-2222196 Tel:0750-2251492 2222197

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10/100 PC CARD SMD TRANSFORMER MODULE

P/N:TM1692S DATA SHEET(REFERENCE ACUWA AF-010A)

Feature



- ◆ Designed to meet IEEE802.3u requirement
- ◆ Lead-Free & Designed to meet rohs requirement
- ◆ Low Profile package for cardbus Application
- ◆ Perating temperature range : 0°C to +70°C.
- ◆ Storage temperature range: 0°C to +125°C.

Electrical Specifications @ 25°C

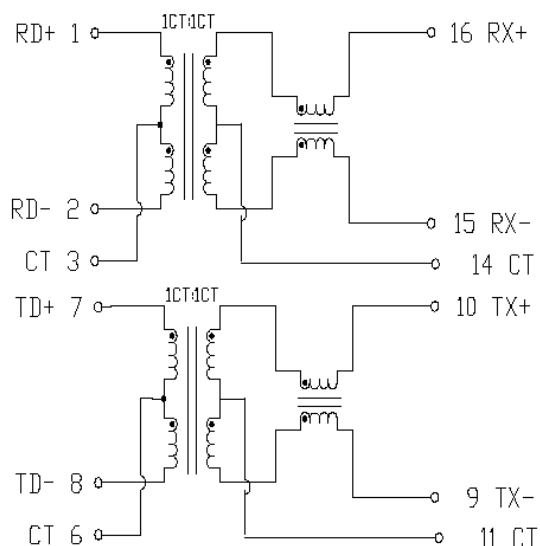
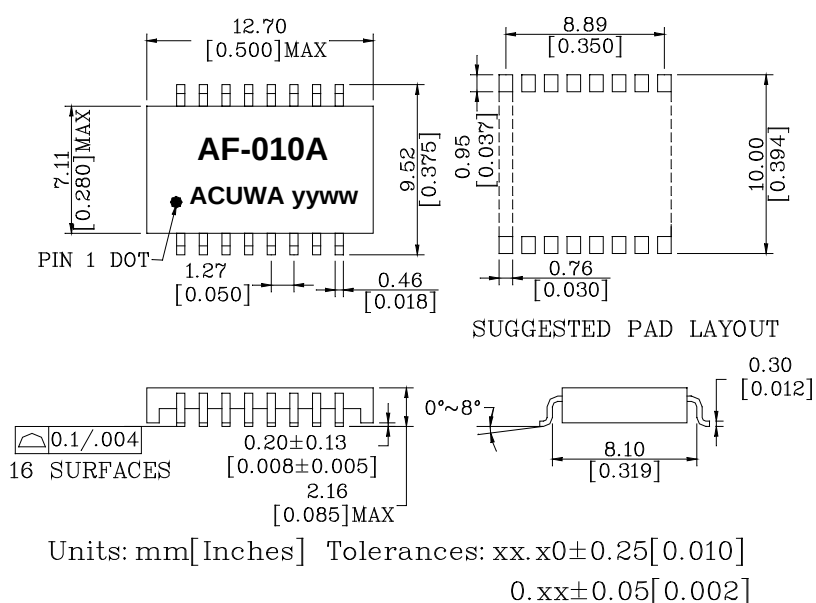
Part Number	OCL(uH Min) 100KHz/0.2V	HI-POT (Vrms)	Turns Ratio (±5%)	DCR (Ω MAX)	Cross Talk (dB Min)		
				1-2/7-8	30MHz	62MHz	100MHz
TM1692S	290	1500	1CT: 1CT	0.70	-50	-45	-35

Continue

Part Number	Insertion Loss (dB Max)	Return Loss (dB Min)			CMRR (dB TYP)			
	0.1-100MHz	30MHz	60MHz	80MHz	30MHz	50MHz	100MHz	150MHz
TM1692S	-0.9	-16	-12	-11	-35	-33	-20	-20

Mechanical

Schematic



MFILTER ELECTRONIC CORP.

SAMPLES TEST REPORT

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CUSTOMER		ACUWA		CUST P/N			AF-010A			
ITEM		TRANSFORMER		MFILTER P/N			TM1692S			
PART NO.		208-06680		DATE			2008-12-6			
ITEM	TEST CONDITION @ 25℃	SAMPLES NO. TEST PIN	1	2	3	4	5	SPECIFICATION		
								Min	Typ	Max
OCL (uH)	100KHz/0.2V	1-2	458	449	468	423	504	290		
		7-8	490	454	472	473	492			
DCR (Ω)		1-2	0.48	0.47	0.48	0.48	0.47			0.7
		7-8	0.46	0.48	0.47	0.48	0.48			
HI-POT(Vrms)	1500Vrms	PRI/SEC	PASS	PASS	PASS	PASS	PASS	1S		
TURN RATIO (±5%)	100KHz/0.1V	1-2:16-15	1.00	1.00	1.00	1.00	1.00	1CT:1CT		
		7-8:10-9	1.00	1.00	1.00	1.00	1.00			
Cross talk (dB Min)	30MHz	1-2 to 16-15 7-8 to 10-9	-57.8	-57.6	-58.0	-57.9	-58.2	-50		
	62MHz		-52.2	-52.1	-51.9	-51.7	-52.5	-45		
	100MHz		-44.8	-45.0	-44.8	-45.3	-45.1	-35		
CMRR (dB Min)	30MHz	1-2 to 16-15 7-8 to 10-9	-40.7	-40.6	-40.8	-40.5	-40.3		-35	
	50 MHz		-37.0	-37.2	-37.3	-37.2	-37.3		-33	
	100MHz		-26.7	-27.2	-26.3	-27.1	-26.5		-20	
	150 MHz		-22.4	-22.4	-22.5	-22.8	-22.4		-20	
Return loss (dB Min)	30HMz	1-2 to 16-15 7-8 to 10-9	-22.5	-22.8	-23.0	22.8	-22.4	-16		
	60MHz		-14.9	14.6	-14.5	-14.4	-14.3	-12		
	80MHz		-12.7	12.8	-12.8	-12.6	-12.4	-11		
Insertion loss (dB Max)	0.1-100MHz	1-2 to 16-15 7-8 to 10-9	-0.73	-0.72	-0.70	-0.73	-0.72			-0.9
REMARK:				Approved by:		Checked by:		Drawn by:		
				唐海英				周 银		

MFILTER ELECTRONIC CORP.

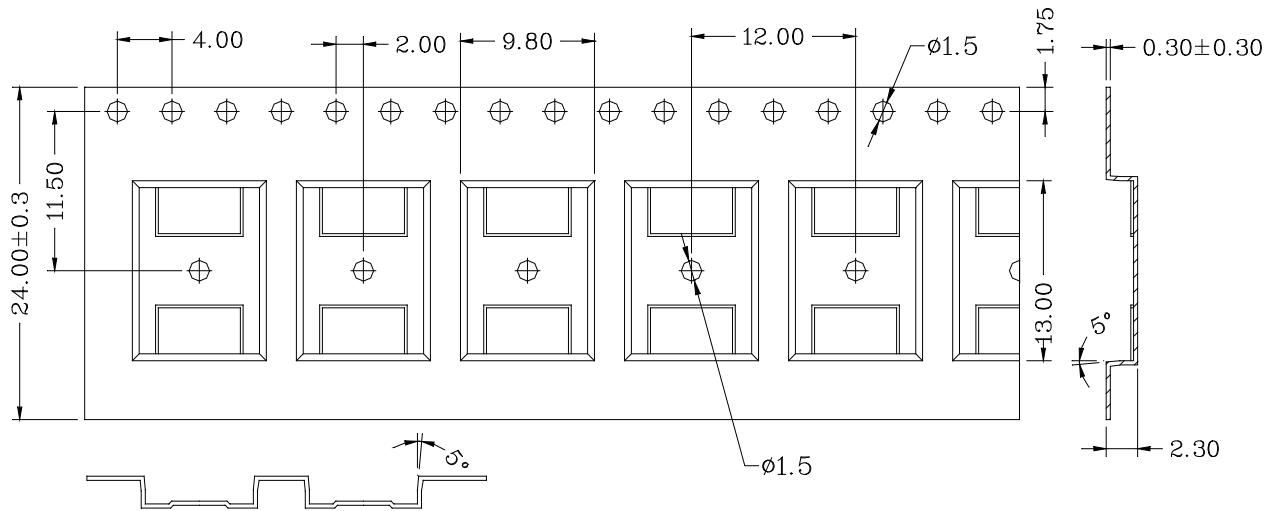
SAMPLES TEST REPORT

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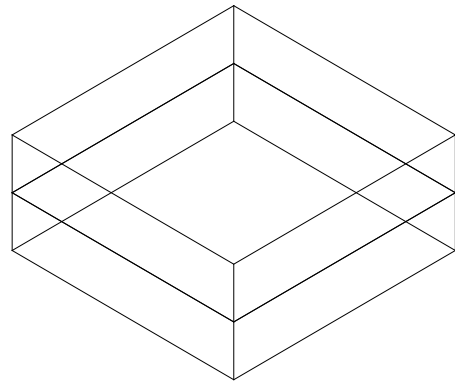
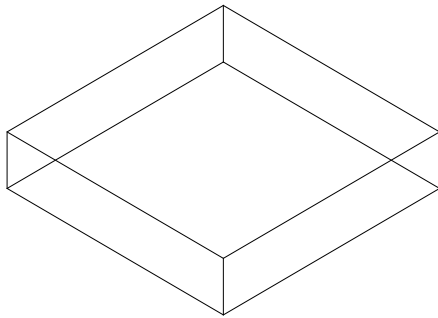
CUSTOMER		ACUWA		CUST P/N				AF-010A			
ITEM		TRANSFORMER		MFILTER P/N				TM1692S			
PART NO.		208-06680		DATE				2008-12-6			
ITEM	TEST CONDITION @ 25℃	SAMPLES NO. TEST PIN	6	7	8	9	10	SPECIFICATION			
								Min	Typ	Max	
OCL (uH)	100KHz/0.2V	1-2	490	487	495	501	487	290			
		7-8	463	480	459	493	504				
DCR (Ω)		1-2	0.47	0.47	0.48	0.47	0.47			0.7	
		7-8	0.46	0.48	0.47	0.48	0.48				
HI-POT(Vrms)	1500Vrms	PRI/SEC	PASS	PASS	PASS	PASS	PASS	1S			
TURN RATIO (±5%)	100KHz/0.1V	1-2:16-15	1.00	1.00	1.00	1.00	1.00	1CT:1CT			
		7-8:10-9	1.00	1.00	1.00	1.00	1.00				
Cross talk (dB Min)	30MHz	1-2 to 16-15 7-8 to 10-9	-58.2	-58.3	-58.4	-58.2	-58.7	-50			
	62MHz		-51.3	-51.4	-51.2	-51.4	-51.0	-45			
	100MHz		-45.6	-45.6	-45.8	-45.3	-45.6	-35			
CMRR (dB Min)	30MHz	1-2 to 16-15 7-8 to 10-9	-40.2	-40.5	-40.8	-40.2	-40.3		-35		
	50 MHz		-37.3	-37.4	-38.7	-37.5	-37.4		-33		
	100MHz		-26.8	-27.0	-26.7	-27.1	-26.5		-20		
	150 MHz		-22.7	-22.6	-22.7	-22.6	-22.5		-20		
Return loss (dB Min)	30HMz	1-2 to 16-15 7-8 to 10-9	-22.5	-22.8	-23.0	22.7	-22.4	-16			
	60MHz		-15.0	14.7	-14.8	-14.6	-14.5	-12			
	80MHz		-12.5	12.8	-12.8	-12.5	-12.6	-11			
Insertion loss (dB Max)	0.1-100MHz	1-2 to 16-15 7-8 to 10-9	-0.74	-0.75	-0.75	-0.74	-0.75			-0.9	
REMARK:			Approved by:		Checked by:		Drawn by:				
			唐海英				周 银				

REEL W/DIM 13.0(L)×9.8(W)×2.3(H)

P/N: TM1692S DATA SHEET(REFERENCE ACUWA AF-010A)

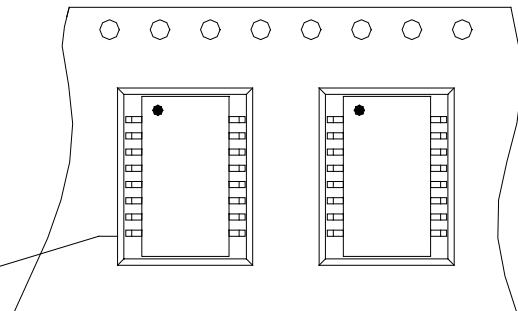
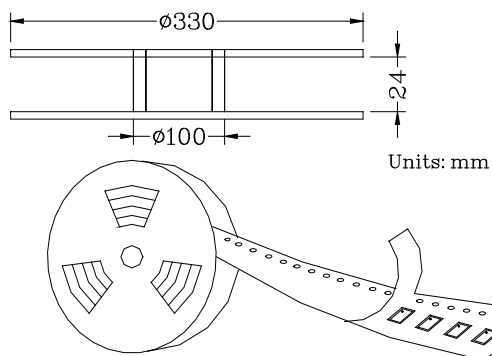


REEL MECHANICAL DIMENSION



INNER CARTON:39.5(L)×39.5(W)×7.6(H)

EXPORT CARTON:41.5(L)×41.5(W)×17.0(H)



1. ONE ROLL:2000PCS
2. TWO ROLL BOX:4000PCS
3. TWO BOX CARTON:8000PCS

Approved by. : 唐海英

Checked by. :

Prepared by : 周 银