



SPECIFICATION FOR APPROVAL

DATE: September 26, 2009

SAMPLE Q'TY 6 PCS

CUSTOMER : **ACUWA**

CUSTOMER P/N: SM51309EL

MFILTER P/N : TM2420S

DESCRIPTION : 10/100 BASET FAST ETHERNET TRANSFORMER

APPROVED SIGNATURES	
MFILTER APPROVED SIGNATURES	CUSTOMER APPROVED SIGNATURES
APPROVED BY : 唐海英	APPROVED BY :
DATE : 2009-09-26	DATE :
APPROVED No. :	APPROVED No. :

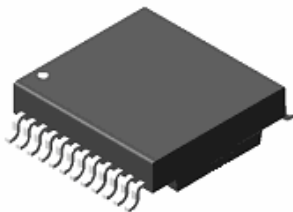
MFILTER(KAI PING) ENTERPRISE INC.

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

Fax:0750-2222196 Tel:0750-2251492 2222197

E-mail<LUO115@yahoo.com.tw lkuochen@ms63.hinet.net

Feature



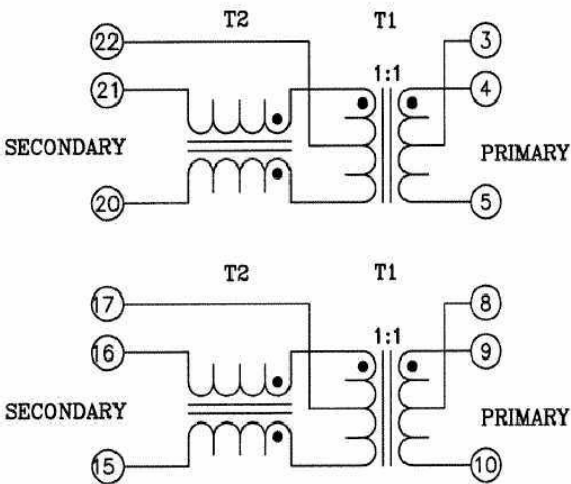
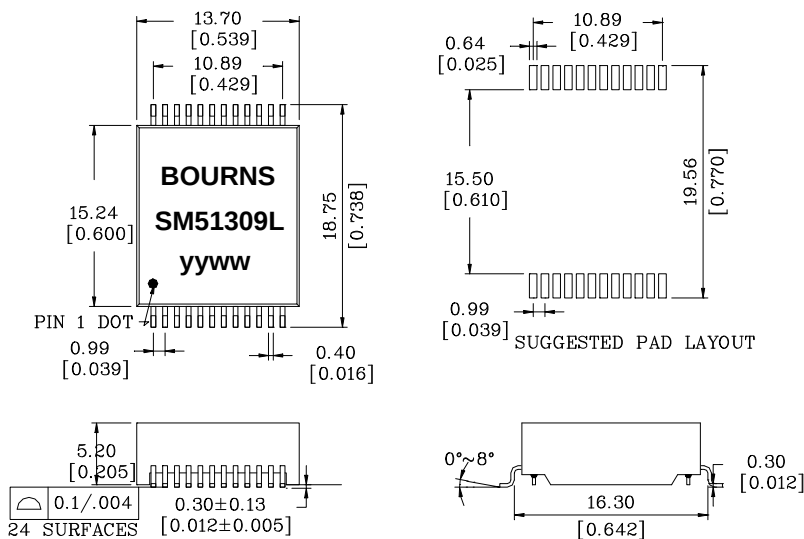
- ◆ Primary inductance 350H min with 8mA/DC Bias.
- ◆ Operating temperature range : -40℃ to +85℃.
- ◆ Storage temperature range: 0℃ to +125℃.

Electrical Specifications @ 25℃					
Part Number	Turns Ratio PRI:SEC	PRI OCL(uH Min) 100KHz/0.1V 8mA/DC Bias	HI-POT (Vrms/1mA 60S)	Cross talk (dB Min)	CMRR (dB Min)
				1-100MHz	500KMz-100MHz
TM2420S	1CT : 1CT	350	2225	-35	-30

Continue						
Part Number	Insertion Loss (dB Max)	Return Loss (dB Min)				DCMR (dB Min)
	500KMz-80MHz	500K-15MHz	30-45MHz	45-60MHz	60-80MHz	500K-100MHz
TM2420S	-1.2	-18	-14	-10	-6	-30

Mechanical

Schematic



Units: mm[Inches] Tolerance: xx.x0±0.25[0.010]
0.xx±0.05[0.002]



MFILTER ELECTRONIC CORP.

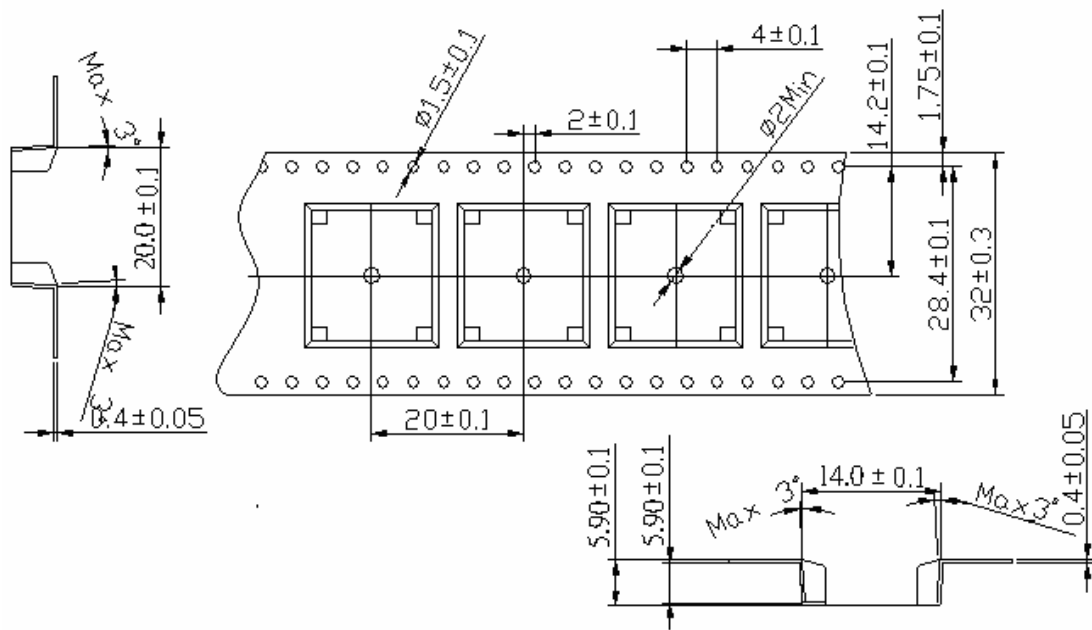
SAMPLES TEST REPORT

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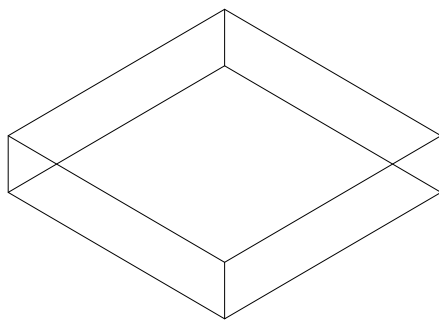
CUSTOMER		ACUWA		CUST P/N			SM51309EL				
ITEM		TRANSFORMER		MFILTER P/N			TM2420S				
PART NO.				DATE			2009-9-26				
ITEM	TEST CONDITION @ 25°C	SAMPLES NO. TEST PIN	1	2	3	4	5	SPECIFICATION			
								Min	Typ	Max	
OCL (uH Min)	100KHz/0.1Vrms 8mA/DC Bias	4-5=21-20	876	880	882	925	938	350			
		9-10=16-15	882	878	890	945	875				
HI-POT(Vrms)	2225Vrms/1mA	PRI/SEC	PASS	PASS	PASS	PASS	PASS	60S			
TURNS RATIO	100KHz/0.1V	4-5:21-20	PASS	PASS	PASS	PASS	PASS	1CT : 1CT			
		9-10:16-15	PASS	PASS	PASS	PASS	PASS				
Cross talk (dB Min)	1 MHz -100MHz	4-5TO21-20 &9-10TO16-15	-40.5	-39.8	-41.0	-39.5	-40.8	-35			
Return loss (dB Min) 100 OHM	500KHz-15MHz	4-5TO21-20 9-10TO16-15	-23.8	-21.9	-23.0	-22.5	-22.4	-18			
	30MHz-45MHz		-16.5	-16.7	-16.6	-16.8	-16.5	-14			
	45MHz-60MHz		-15.2	-14.8	-15.3	-14.5	-15.0	-10			
	60MHz-80MHz		-13.2	-13.0	-12.9	-13.7	-13.1	-6			
DCMR (dB Min)	500KHz-100MHz	4-5TO21-20 9-10TO16-15	-44.5	-45.2	-46.8	-45.5	-44.9	-30			
CMRR	500KHz-100MHz	4-5TO21-20 9-10TO16-15	-40.6	-41.2	-43.5	-44.2	-41.4	-30			
Insertion loss (dB Max)	500KHz-80MHz	4-5TO21-20 9-10TO16-15	-0.55	-0.51	-0.46	-0.45	-0.50			-1.2	
REMARK:			Approved by:		Checked by:		Drawn by:				
			唐海英				唐海荣				

REEL W/DIM 20.0(L) ×14.0 ×5.9(H)

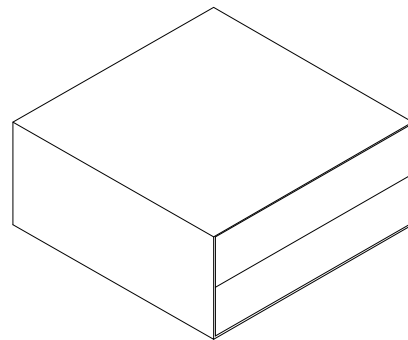
P/N: TM2420S DATA SHEET(REFERENCE ACUWA SM51309EL)



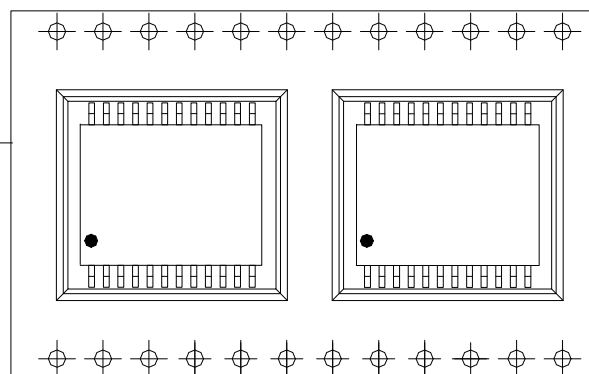
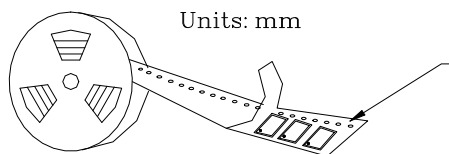
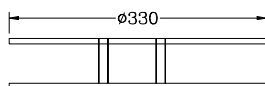
REEL MECHANICAL DIMENSION



INNER CARTON: 34(L) × 34(W) × 7.6(H)



EXPORT CARTON: 36(L) × 36(W) × 15.6(H)



1. ONE ROLL : 500PCS
2. TWO ROLL BOX : 500PCS
3. TWO BOX CARTON : 1000PCS

Approved by. : 唐海英

Checked by. :

Prepared by : 唐海榮