



SPECIFICATION FOR APPROVAL

DATE : Mar 14, 2009

SAMPLE Q'TY 12 PCS

CUSTOMER : ACUWA

CUSTOMER P/N: SM51587EL

MFILTER P/N : TG2433S

DESCRIPTION : 10/100/1000 BASE TRANSFORMER

APPROVED SIGNATURES	
MFILTER APPROVED SIGNATURES	CUSTOMER APPROVED SIGNATURES
APPROVED BY : 唐海英	APPROVED BY :
DATE : 2009-03-14	DATE :
APPROVED No. : REV:A1	APPROVED No. :

MFILTER(KAI PING) ENTERPRISE INC.

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

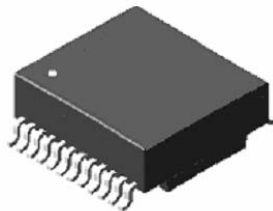
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10/100/1000 BASE-T TRANSFORMER

P/N: TG2433S DATA SHEET(REFERENCE ACUWA SM51587EL)

Feature



- ◆ Operating temperature range : 0°C to +70°C.
- ◆ Storage temperature range: 0°C to +125°C.

Electrical Specifications @ 25°C

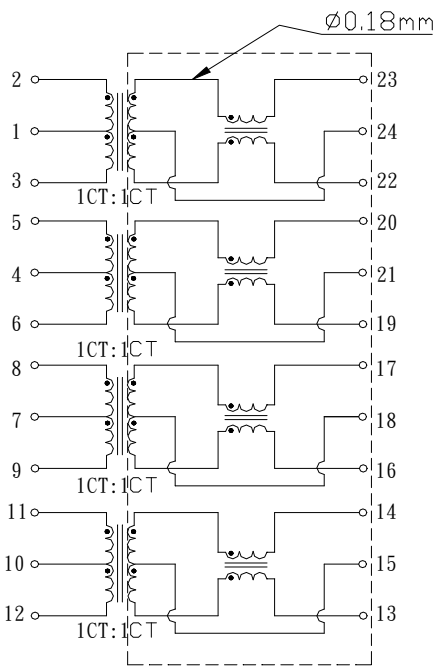
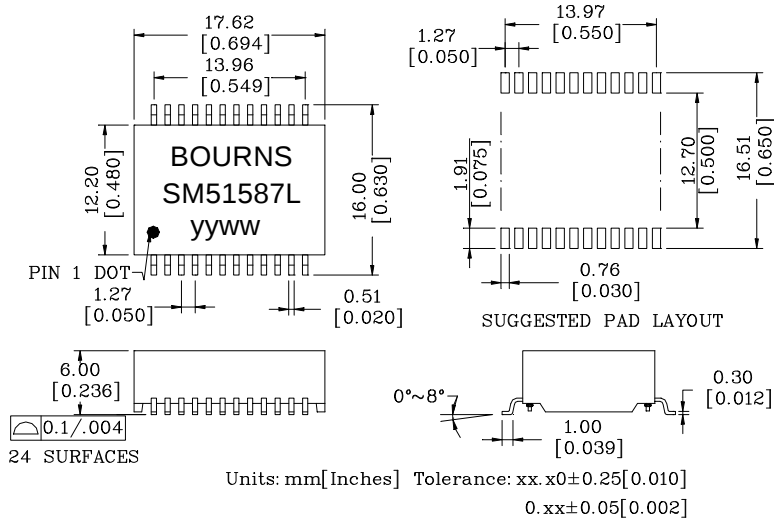
Part Number	Turns Ratio TX/RX (±5%)	OCL(uH Min) 100KHz/0.1V with 8mA/DC Bias	CW/W (pF Max)	L.L (uH Max)	HI-POT (Vrms)	Insertion Loss (dB Max)
						1-100MHz
TG2433S	1CT : 1CT	350	28	0.5	1500	-1.0

Continue

Part Number	Cross talk (dB Min)			Return Loss (dB Min) @100Ω					DCMR (dB Min)		
	30MHz	60MHz	100MHz	1-30MHz	40 MHz	50MHz	60-80MHz	100MHz	30 MHz	60 MHz	100 MHz
TG2433S	-45	-40	-35	-16	-14.4	-13.1	-12	-10	-43	-37	-33

Mechanical

Schematic



Approved by. : 唐海英

Checked by. :

Prepared by : 周 银

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Date:2009/03/14

MFILTER ELECTRONIC CORP.

SAMPLES TEST REPORT

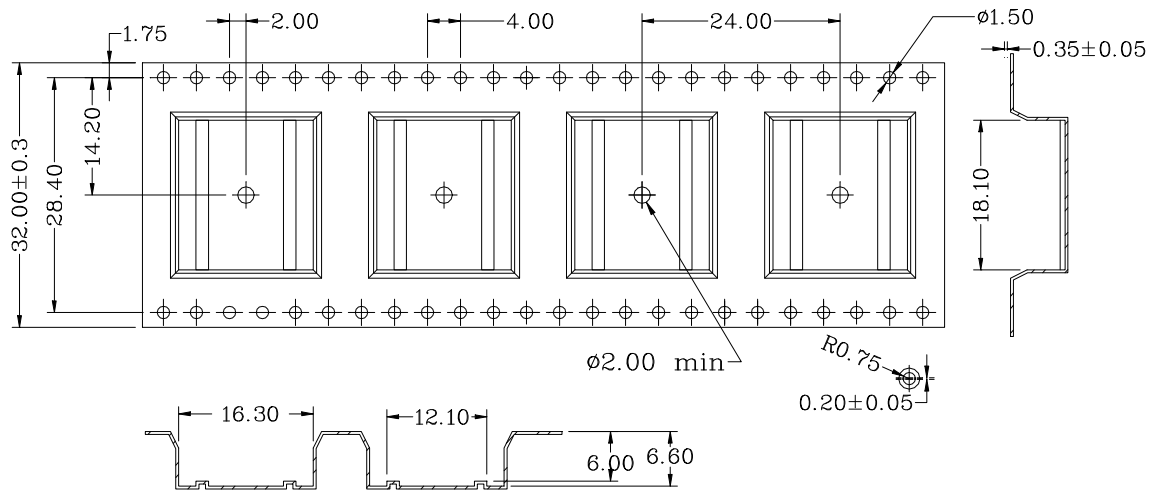
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CUSTOMER		ACUWA		CUST P/N			SM51587EL			
ITEM		TRANSFORMER		MFILTER P/N			TG2433S			
PART NO.				DATE			2009-03-14			
ITEM	TEST CONDITION @ 25℃	SAMPLES NO. TEST PIN	1	2	3	4	5	SPECIFICATION		
								Min	Typ	Max
OCL (uH)	100KHz/0.1Vrms 8mA/DC Bias	2-3	738	710	706	730	664	350		
		5-6	707	720	666	705	713			
		8-9	718	670	701	717	692			
		11-12	742	709	720	723	610			
CW/W (pF)	100KHz/0.1V	1 to 24	23	19	21	22	21			28
		4 to 21	23	18	23	23	19			
		7 to 18	21	21	18	21	19			
		10 to 15	23	22	19	24	22			
L.L (uH)	100KHz/0.1V	2-3(short23-22)	0.22	0.21	0.21	0.20	0.21			0.5
		5-6(short20-19)	0.20	0.23	0.23	0.23	0.23			
		8-9(short17-16)	0.23	0.24	0.25	0.25	0.23			
		11-12(short14-13)	0.22	0.25	0.23	0.22	0.22			
HI-POT(Vrms)	1500Vrms	PRI/SEC	PASS	PASS	PASS	PASS	PASS	1S		
TURNS RATIO (±5%)	100KHz/0.1V	2-3 : 23-22	1.00	1.00	1.00	1.00	1.00	1CT : 1CT		
		5-6 : 20-19	1.00	1.00	1.00	1.00	1.00			
		8-9 : 17-16	1.00	1.00	1.00	1.00	1.00			
		11-12 : 14-13	1.00	1.00	1.00	1.00	1.00			
Cross talk (dB Min)	30MHz	2-3 to 23-22 5-6 to 20-19 8-9 to 17-16 11-12 to 14-13	-57.2	-58.0	-57.5	-57.2	-57.6	-45		
	60MHz		-50.2	-51.0	-50.8	-51.2	-50.4	-40		
	100 MHz		-43.2	-41.2	-40.2	-40.3	-40.1	-35		
Return loss (dB Min) 100 OHM	1-30MHz	2-3 to 23-22 5-6 to 20-19 8-9 to 17-16 11-12 to 14-13	-22.2	-22.5	-22.6	-22.7	-22.5	-16		
	40MHz		-19.7	-19.4	-19.8	-19.4	-19.5	-14.4		
	50MHz		-17.8	-17.6	-18.0	-18.2	-18.5	-13.1		
	60-80 MHz		-16.0	-16.2	-15.8	-16.2	-16.2	-12		
	100MHz		-14.2	-14.3	-14.2	-14.3	-14.5	-10		
DCMR (dB Min)	30MHz	2-3 to 23-22 5-6 to 20-19 8-9 to 17-16 11-12 to 14-13	-58.2	-58.6	-58.7	-57.9	58.2	-43		
	60MHz		-44.5	-44.8	-45.5	-45.2	-45.0	-37		
	100MHz		-39.2	-38.7	-38.5	-38.5	-38.4	-33		
Insertion loss (dB Max)	1-100MHz	TX/RX	-0.85	-0.88	-0.82	-0.83	-0.84			-1.0
REMARK:			Approved by:		Checked by:		Drawn by:			
			唐海英				周 银			

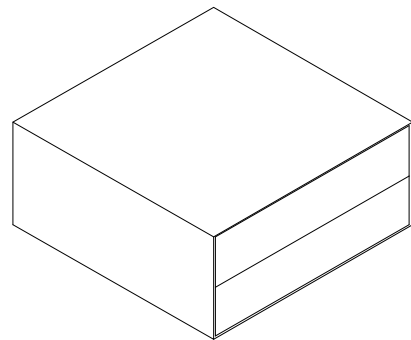
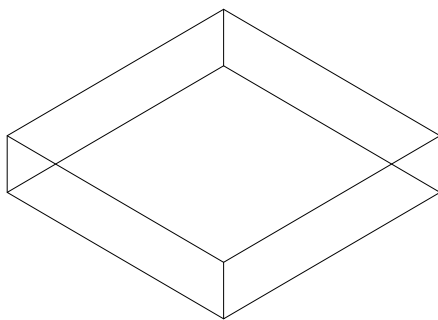
REEL W/DIM 18.1(L) ×16.3 ×6.0(H)

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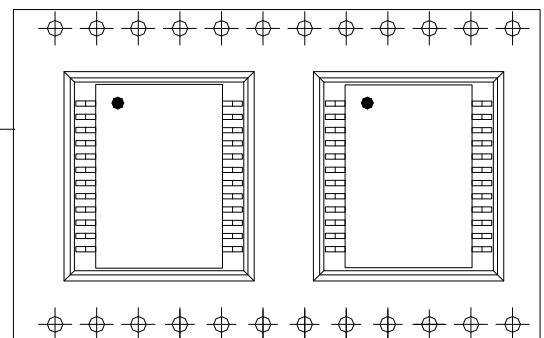
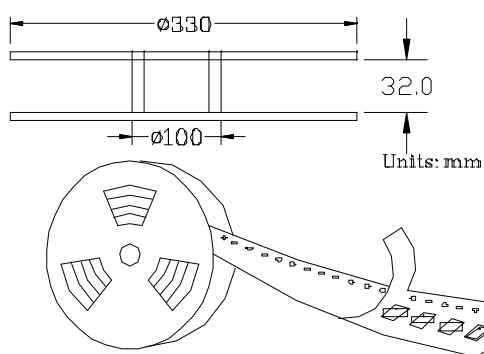
Units: mm Tolerances: 0. x ± 0.10

REEL MECHANICAL DIMENSION



INNER CARTON: 34(L) × 34(W) × 7.6(H)

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



1. ONE ROLL : 400PCS
2. ONE ROLL BOX : 400PCS
3. ONE BOX CARTON : 800PCS

Approved by : 唐海英

Checked by :

Prepared by : 周 银

REV:A1