



SPECIFICATION FOR APPROVAL

DATE: August 13, 2011

SAMPLE Q'TY 20 PCS

CUSTOMER : ACUWA

CUSTOMER P/N: SM51227-1AEL

MFILTER P/N : TI4802S-1A

DESCRIPTION : ISDN-PRITRANSFORMER

APPROVED SIGNATURES	
MFILTER APPROVED SIGNATURES	CUSTOMER APPROVED SIGNATURES
APPROVED BY : 唐海英	APPROVED BY :
DATE : 2011-8-13	DATE :
APPROVED No. :	APPROVED No. :

MFILTER(KAI PING) ENTERPRISE INC.

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

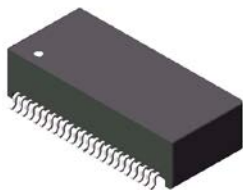
Fax:0750-2222916 Tel:0750-2251492 2222197

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

ISDN-PRI TRANSFORMER

P/N: TI4802S-1A DATA SHEET(REFERENCE BOURNS SM51227-1AEL)

Feature



- ◆ Pb free Soldering Heat Withstanding
- ◆ Operating temperature range : -40°C to +85°C.
- ◆ Storage temperature range: -40°C to +85°C.

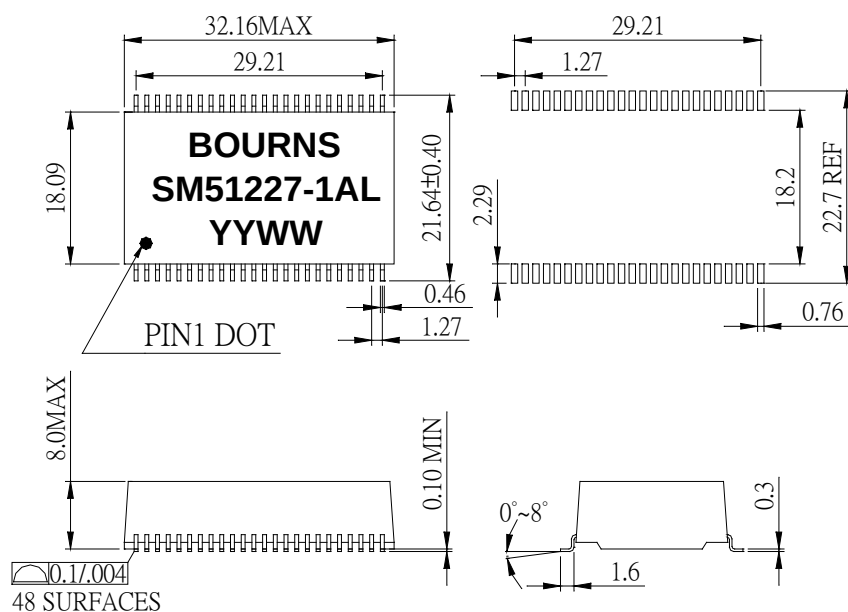
Electrical Specifications @ 25°C

Part Number	Turns Ratio PRI:SEC		OCL(mHmin) 10KHz/0.1V@25°C	OCL(mHmin) 10KHz/0.1V@-40°C	HI-POT (Vrms)
	48-46:1-3 42-40:7-9 36-34:13-15 30-28:19-21	45-43:4-6 39-37:10-12 33-31:16-18 27-25:22-24	25-27,28-30,31-33,34-36, 37-39,40-42,43-45,46-48,	25-27,28-30,31-33,34-36, 37-39,40-42,43-45,46-48,	
TI4802S-1A	1:1(+/-5%)	2:1(+/-5%)	1.2	0.6	1500

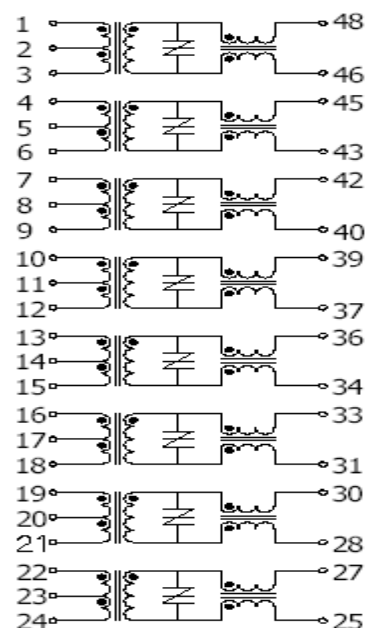
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Part Number	CW/W(pFmax) 100KHz/0.1V	DCR(MAX)			L/L(uHmax) 100KHz/0.1V	
		4-6,10-12 16-18,22-24	1-3,7-9 13-15,19-21	25-27,28-30,31-33,34-36 37-39,40-42,43-45,46-48	1-3,7-9,13-15,19-21 (shortSEC)	4-6,10-12,16-18,22-24 (shortSEC)
TI4802S-1A	35	0.4	0.8	1.1	0.8	0.8

Mechanical



Schematic



Approved by. : 唐海英

Checked by. :

Prepared by. : 唐海榮

REV:A1

Date:2011/8/13



MFILTER ELECTRONIC CORP.

SAMPLES TEST REPORT

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CUSTOMER		ACUWA		CUST P/N			SM51227-1AEL			
ITEM		TRANSFORMER		MFILTER P/N			TI4802S-1A			
PART NO.		208-09820		DATE			2011/08/13			
ITEM	TEST CONDITION @ 25℃	SAMPLES NO. TEST PIN	1	2	3	4	5	SPECIFICATION		
								Min	Typ	Max
OCL (mH)	10KHz/0.1Vrms	25-27	1.81	2.29	1.74	1.87	1.83	1.2		
		28-30	2.22	1.83	1.90	1.67	1.95			
		31-33	1.66	1.81	1.92	2.01	2.06			
		34-36	1.97	1.29	2.04	1.50	2.07			
		37-39	1.64	2.51	.81	2.05	1.56			
		40-42	1.72	1.63	1.81	1.58	2.15			
		43-45	1.97	1.94	1.78	2.02	2.07			
46-48	1.73	1.52	2.02	1.50	2.01					
HI-POT(Vrms)	1500Vrms/0.5mA	PRI/SEC	PASS	PASS	PASS	PASS	PASS	1S		
TURNS RATIO (±5%)	100KHz/0.1Vrms	48-46:1-3	1.000	1.001	1.001	0.999	1.000	1:1		
		42-40:7-9	1.000	0.999	1.000	1.000	1.001			
		36-34:13-15	0.999	1.000	0.999	1.000	1.000			
		30-28:19-21	2.000	2.000	2.000	2.001	2.001	2:1		
		45-43:4-6	1.999	1.999	2.000	1.999	2.000			
		39-37:10-12	2.001	2.000	2.000	2.000	2.000			
		33-31:16-18	2.001	1.999	2.000	2.000	2.000			
27-25:22-24	1.999	2.001	2.000	2.000	1.999					
L/L (uH)	100KHz/0.1Vrms	1-3(short48-46)	0.20	0.22	0.23	0.22	0.21	0.8		
		7-9(short42-40)	0.20	0.21	0.20	0.19	0.22			
		13-15(short36-34)	0.23	0.21	0.21	0.20	0.21			
		19-21(short30-28)	0.20	0.21	0.21	0.20	0.21			
		4-6(short45-43)	0.12	0.11	0.11	0.11	0.12			
		10-12(short39-37)	0.11	0.12	0.11	0.12	0.11			
		16-18(short33-31)	0.12	0.11	0.11	0.12	0.11			
22-24(short27-25)	0.11	0.12	0.11	0.12	0.11					
CW/W (pF)	100KHz/0.1Vrms	2-48	17.2	16.9	16.5	17.3	16.6	35		
		5-45	7.3	7.9	7.7	7.6	7.9			
		8-42	17.3	16.8	16.9	17.7	17.2			
		11-39	7.1	7.6	7.9	8.2	7.9			
		14-36	17.9	16.8	17.8	17.9	16.8			
		17-33	7.3	7.8	7.5	7.7	7.9			
		20-30	17.2	18.0	17.9	17.9	18.2			
23-27	7.9	7.6	7.8	8.0	7.5					
DCR (Ω)		4-6	0.25	0.26	0.25	0.25	0.25	0.4		
		10-12	0.25	0.26	0.25	0.25	0.25			
		16-18	0.26	0.25	0.25	0.25	0.25			
		22-24	0.26	0.25	0.25	0.25	0.25			
		1-3	0.43	0.41	0.43	0.42	0.43	0.8		
		7-9	0.43	0.42	0.42	0.43	0.42			
		13-15	0.43	0.43	0.42	0.43	0.43			
		19-21	0.43	0.43	0.43	0.43	0.42			
		25-27	0.73	0.73	0.73	0.72	0.73	1.1		
		28-30	0.72	0.72	0.72	0.72	0.72			
		31-33	0.72	0.72	0.72	0.72	0.72			
		34-36	0.72	0.72	0.72	0.73	0.72			
		37-39	0.72	0.73	0.72	0.72	0.73			
		40-42	0.73	0.73	0.72	0.73	0.73			
		43-45	0.73	0.73	0.73	0.73	0.73			
46-48	0.72	0.73	0.72	0.73	0.73					
REMARK:			Approved by:		Checked by:		Drawn by:			
			唐海英				唐海荣			

MFILTER ELECTRONIC CORP.

SAMPLES TEST REPORT

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CUSTOMER		ACUWA		CUST P/N				SM51227-1AEL		
ITEM		TRANSFORMER		MFILTER P/N				TI4802S-1A		
PART NO.		208-09820		DATE				2011/08/13		
ITEM	TEST CONDITION @ 25℃	SAMPLES NO. TEST PIN	6	7	8	9	10	SPECIFICATION		
								Min	Typ	Max
OCL (mH)	10KHz/0.1Vrms	25-27	1.66	1.87	1.91	2.35	1.82	1.2		
		28-30	2.03	1.47	2.05	2.51	2.12			
		31-33	1.63	1.98	1.81	2.27	1.78			
		34-36	2.31	1.42	2.51	2.32	1.68			
		37-39	1.85	2.00	2.07	2.36	2.06			
		40-42	2.18	1.54	1.97	2.00	2.22			
		43-45	2.03	2.10	1.97	2.21	1.95			
		46-48	2.83	1.50	1.71	2.05	1.99			
HI-POT(Vrms)	1500Vrms/0.5mA	PRI/SEC	PASS	PASS	PASS	PASS	PASS	1S		
TURNS RATIO (±5%)	100KHz/0.1Vrms	48-46:1-3	1.000	1.001	1.001	0.999	1.000	1:1		
		42-40:7-9	1.000	0.999	1.001	1.001	1.001			
		36-34:13-15	0.999	1.000	1.000	1.000	1.000			
		30-28:19-21	1.999	2.001	2.000	2.001	1.997			
		45-43:4-6	2.001	2.000	2.000	2.000	2.000	2:1		
		39-37:10-12	2.000	2.000	2.000	2.000	2.000			
		33-31:16-18	2.000	1.999	2.000	2.000	1.999			
		27-25:22-24	2.000	2.000	2.000	2.001	2.000			
L/L (uH)	100KHz/0.1Vrms	1-3(short48-46)	0.22	0.21	0.20	0.22	0.21	0.8		
		7-9(short42-40)	0.21	0.21	0.20	0.20	0.22			
		13-15(short36-34)	0.23	0.21	0.21	0.20	0.21			
		19-21(short30-28)	0.20	0.21	0.21	0.20	0.21			
		4-6(short45-43)	0.11	0.12	0.11	0.11	0.11			
		10-12(short39-37)	0.11	0.12	0.11	0.12	0.11			
		16-18(short33-31)	0.12	0.11	0.11	0.12	0.11			
		22-24(short27-25)	0.11	0.12	0.11	0.11	0.12			
CW/W (pF)	100KHz/0.1Vrms	2-48	17.5	17.3	16.9	17.3	16.7	35		
		5-45	7.3	7.8	7.7	7.6	7.9			
		8-42	17.3	16.8	17.5	17.7	17.2			
		11-39	7.1	7.6	7.9	8.2	7.9			
		14-36	17.9	16.8	17.8	17.9	16.8			
		17-33	7.3	7.8	7.5	7.7	7.9			
		20-30	17.2	18.0	17.9	17.9	18.2			
		23-27	7.9	7.6	7.8	8.1	7.5			
DCR (Ω)		4-6	0.25	0.26	0.25	0.25	0.26	0.4		
		10-12	0.25	0.26	0.25	0.25	0.25			
		16-18	0.26	0.25	0.25	0.25	0.25			
		22-24	0.26	0.25	0.25	0.25	0.25			
		1-3	0.43	0.41	0.43	0.42	0.43	0.8		
		7-9	0.43	0.42	0.42	0.43	0.42			
		13-15	0.43	0.43	0.42	0.43	0.43			
		19-21	0.43	0.43	0.43	0.43	0.42			
		25-27	0.73	0.73	0.73	0.72	0.73	1.1		
		28-30	0.72	0.72	0.72	0.72	0.72			
		31-33	0.72	0.72	0.72	0.72	0.72			
		34-36	0.72	0.72	0.72	0.73	0.72			
		37-39	0.72	0.73	0.72	0.72	0.73			
		40-42	0.73	0.73	0.72	0.72	0.73			
		43-45	0.73	0.73	0.72	0.73	0.73			
		46-48	0.72	0.73	0.72	0.73	0.73			
REMARK:			Approved by:		Checked by:		Drawn by:			
			唐海英				唐海荣			



MFILTER ELECTRONIC CORP.

SAMPLES TEST REPORT

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CUSTOMER		ACUWA		CUST P/N				SM51227-1AEL			
ITEM		TRANSFORMER		MFILTER P/N				TI4802S-1A			
PART NO.		208-09820		DATE				2011/08/13			
ITEM	TEST CONDITION @ 25℃	SAMPLES NO. TEST PIN	11	12	13	14	15	SPECIFICATION			
								Min	Typ	Max	
OCL (mH)	10KHz/0.1Vrms	25-27	1.89	1.69	1.89	1.75	1.97	1.2			
		28-30	1.91	1.73	1.91	1.97	1.97				
		31-33	1.78	1.84	1.94	1.95	1.89				
		34-36	1.79	2.12	2.04	1.98	1.79				
		37-39	1.63	1.65	2.04	1.63	1.82				
		40-42	1.72	2.05	2.10	2.08	1.90				
		43-45	1.91	1.84	1.52	1.79	1.85				
		46-48	1.84	1.81	1.98	1.98	2.45				
HI-POT(Vrms)	1500Vrms/0.5mA	PRI/SEC	PASS	PASS	PASS	PASS	PASS	1S			
TURNS RATIO (±5%)	100KHz/0.1Vrms	48-46:1-3	1.000	1.001	1.001	0.999	1.000	1:1			
		42-40:7-9	1.000	0.999	1.001	1.001	1.001				
		36-34:13-15	0.999	1.000	1.000	1.000	1.000				
		30-28:19-21	2.000	2.001	2.000	2.001	1.997				
		45-43:4-6	2.001	1.999	2.000	1.999	2.000	2:1			
		39-37:10-12	2.000	2.000	2.000	2.000	2.000				
		33-31:16-18	2.000	1.999	2.000	2.000	1.999				
		27-25:22-24	2.000	2.001	2.000	2.001	2.000				
L/L (uH)	100KHz/0.1Vrms	1-3(short48-46)	0.20	0.21	0.20	0.22	0.21	0.8			
		7-9(short42-40)	0.21	0.21	0.20	0.21	0.22				
		13-15(short36-34)	0.23	0.21	0.21	0.20	0.21				
		19-21(short30-28)	0.22	0.21	0.21	0.20	0.21				
		4-6(short45-43)	0.11	0.12	0.11	0.11	0.11				
		10-12(short39-37)	0.11	0.11	0.11	0.12	0.11				
		16-18(short33-31)	0.12	0.11	0.11	0.12	0.11				
		22-24(short27-25)	0.11	0.12	0.11	0.11	0.12				
CW/W (pF)	100KHz/0.1Vrms	2-48	17.9	17.3	18.0	17.3	16.9	35			
		5-45	7.5	7.8	7.7	7.3	7.6				
		8-42	17.3	16.8	17.5	17.7	17.2				
		11-39	7.1	7.6	7.9	8.2	7.9				
		14-36	17.7	16.8	17.8	17.6	16.8				
		17-33	7.3	7.5	7.5	7.7	7.6				
		20-30	17.7	18.0	17.9	17.9	18.2				
		23-27	7.9	7.6	7.8	7.8	7.5				
DCR (Ω)		4-6	0.25	0.25	0.25	0.25	0.25	0.4			
		10-12	0.25	0.25	0.25	0.25	0.25				
		16-18	0.26	0.25	0.25	0.25	0.25				
		22-24	0.26	0.25	0.25	0.25	0.25				
		1-3	0.43	0.41	0.43	0.42	0.43	0.8			
		7-9	0.43	0.42	0.42	0.43	0.43				
		13-15	0.43	0.43	0.42	0.43	0.43				
		19-21	0.43	0.43	0.43	0.43	0.42				
		25-27	0.73	0.73	0.73	0.72	0.73	1.1			
		28-30	0.72	0.72	0.72	0.72	0.72				
		31-33	0.72	0.72	0.72	0.72	0.72				
		34-36	0.72	0.72	0.72	0.73	0.72				
		37-39	0.72	0.73	0.73	0.72	0.73				
		40-42	0.73	0.73	0.72	0.73	0.73				
		43-45	0.73	0.73	0.73	0.73	0.73				
		46-48	0.72	0.73	0.72	0.73	0.73				
		REMARK:			Approved by:		Checked by:		Drawn by:		
					唐海英				唐海荣		

MFILTER ELECTRONIC CORP.

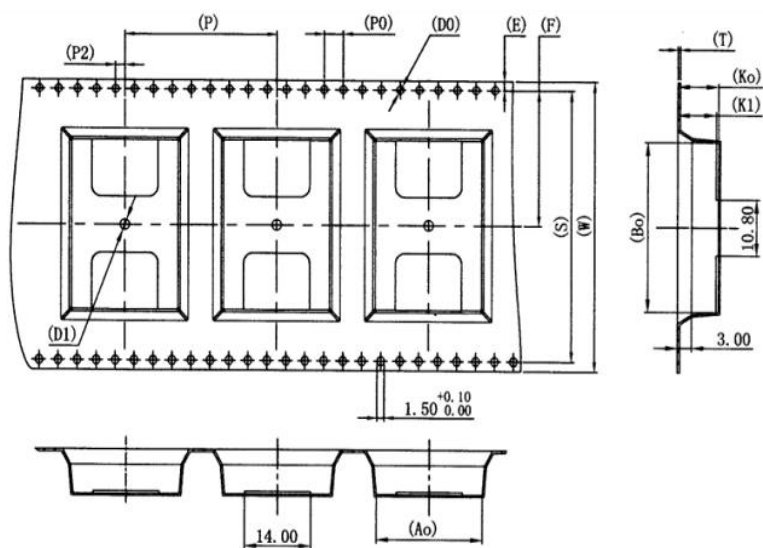
SAMPLES TEST REPORT

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CUSTOMER		ACUWA		CUST P/N				SM51227-1AEL		
ITEM		TRANSFORMER		MFILTER P/N				TI4802S-1A		
PART NO.		208-09820		DATE				2011/08/13		
ITEM	TEST CONDITION @ 25℃	SAMPLES NO. TEST PIN	16	17	18	19	20	SPECIFICATION		
								Min	Typ	Max
OCL (mH)	10KHz/0.1Vrms	25-27	2.46	1.75	1.81	1.79	1.77	1.2		
		28-30	1.91	1.37	2.54	1.80	2.07			
		31-33	2.25	1.99	1.59	1.91	1.80			
		34-36	1.70	1.56	2.47	2.06	1.62			
		37-39	2.77	2.01	1.89	1.75	1.93			
		40-42	2.22	1.43	1.85	2.05	1.88			
		43-45	2.80	1.78	1.62	2.00	1.62			
	46-48	1.94	1.51	2.45	1.88	2.06				
HI-POT(Vrms)	1500Vrms/0.5mA	PRI/SEC	PASS	PASS	PASS	PASS	PASS	1S		
TURNS RATIO (±5%)	100KHz/0.1Vrms	48-46:1-3	0.999	1.001	1.001	1.000	1.000	1:1		
		42-40:7-9	1.000	1.000	1.001	1.001	1.001			
		36-34:13-15	1.000	1.000	1.000	1.000	1.000			
		30-28:19-21	1.999	2.001	2.000	2.001	1.997	2:1		
		45-43:4-6	2.001	2.000	2.000	2.000	2.000			
		39-37:10-12	2.000	1.999	2.000	1.999	2.000			
		33-31:16-18	2.000	1.999	2.000	2.000	1.999			
27-25:22-24	2.000	2.001	2.000	2.001	2.000					
L/L (uH)	100KHz/0.1Vrms	1-3(short48-46)	0.19	0.20	0.20	0.22	0.21	0.8		
		7-9(short42-40)	0.20	0.21	0.20	0.19	0.22			
		13-15(short36-34)	0.23	0.21	0.21	0.20	0.21			
		19-21(short30-28)	0.20	0.21	0.21	0.20	0.21			
		4-6(short45-43)	0.11	0.10	0.10	0.11	0.10			
		10-12(short39-37)	0.11	0.12	0.11	0.10	0.11			
		16-18(short33-31)	0.10	0.11	0.11	0.12	0.11			
22-24(short27-25)	0.11	0.10	0.11	0.10	0.11					
CW/W (pF)	100KHz/0.1Vrms	2-48	17.9	17.7	17.3	17.5	17.4	35		
		5-45	7.5	7.8	7.7	7.6	7.9			
		8-42	17.4	17.5	17.6	17.7	17.2			
		11-39	7.6	7.6	7.9	7.7	7.9			
		14-36	17.7	16.8	17.8	17.9	17.6			
		17-33	7.3	7.8	7.5	7.7	7.7			
		20-30	17.6	17.8	17.9	17.9	17.8			
23-27	7.7	7.6	7.8	7.5	7.5					
DCR (Ω)		4-6	0.25	0.25	0.26	0.26	0.25	0.4		
		10-12	0.25	0.25	0.25	0.25	0.25			
		16-18	0.25	0.25	0.26	0.25	0.25			
		22-24	0.26	0.25	0.25	0.25	0.25			
		1-3	0.43	0.43	0.43	0.43	0.43	0.8		
		7-9	0.43	0.42	0.42	0.43	0.43			
		13-15	0.43	0.43	0.43	0.43	0.43			
		19-21	0.43	0.43	0.43	0.43	0.43			
		25-27	0.73	0.73	0.73	0.72	0.73	1.1		
		28-30	0.73	0.72	0.72	0.72	0.73			
		31-33	0.72	0.72	0.73	0.72	0.72			
		34-36	0.73	0.72	0.72	0.73	0.72			
		37-39	0.72	0.73	0.73	0.72	0.73			
		40-42	0.73	0.73	0.72	0.73	0.73			
		43-45	0.73	0.73	0.73	0.73	0.73			
		46-48	0.72	0.73	0.72	0.73	0.73			
REMARK:			Approved by:		Checked by:		Drawn by:			
			唐海英				唐海荣			

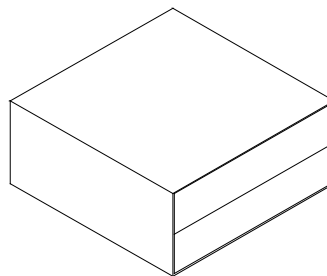
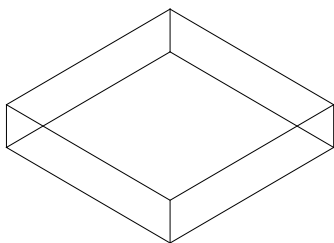
REEL W/DIM 32.8(L) ×22.4(W) ×8.6(H)

P/N:TI4802S-1A DATA SHEET(REFERENCE BOURNS SM51227-1AEL)



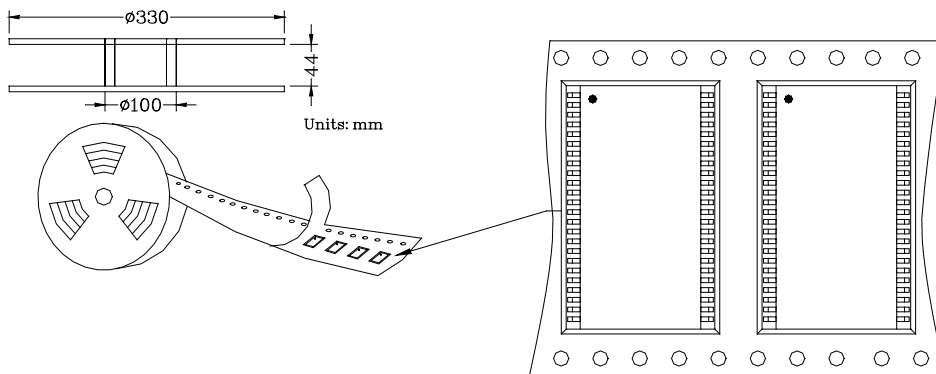
W	56.00±0.30	P	32.00±0.10	A0	22.40±0.10	B0	32.80±0.10
S	52.40±0.10	P0	4.00±0.10	A1		B1	
E	1.75±0.10	P2	2.00±0.15			B2	
F	26.20±0.15	D0	1.50±0.10	K0	8.60±0.15	K2	
T	0.40±0.05	D1	2.00 MIN	K1	8.100±0.10		

REEL MECHANICAL DIMENSION



INNER CARTON:34(L)×34(W)×7.6(H)

EXPORT CARTON:36(L)×36(W)×15.6(H)



1. ONE ROLL : 225PCS
2. ONE ROLL BOX : 225PCS
3. TWO BOX CARTON : 450PCS

Approvedby : 唐海英

Checked by. :

Prepared by : 唐海榮