

DATE: 2013-8-20 (YY/MM/DD)

Customer :

APPROVAL SHEET

PRODUCT: AC ADAPTOR(RoHS Compliant)

MODEL: APL324-1220

PART NO. ST-0223

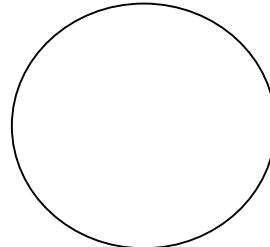
V : A1

Receiver's stamp or signature

PLEASE APPROVE & RETURN BEFORE 2013-9-3
OR WE WOULD REGARD IT BEEN CONFIRMED.

RESPONSIBLE	APPROVED	ISSUED
		<i>nishuang</i>

ISSUES STAMP



Revised History

NO.	Revised Date	Description	Approved	Issued



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Anthin	DESCRIPTION	SWITCHING POWER AC ADAPTER	SHEET NO.	1 OF 4
			VER:	A1
	MODEL NO.	APL324-1220	PART NO.	ST-0223

1.INPUT REQUIREMENT

2.OUTPUT SPECIFICATION

3.MECHANICAL

4.RELIABILITY

5.ENVIRONMENT

6.OUTLOOKING

7.SAFETY

8.QC CHECK

9.DIMENSION

10.AC CORD

11.LABEL

12.PACKING

Anthin	DESCRIPTION	SWITCHING POWER AC ADAPTER	SHEET NO.	2 OF 4
	MODEL NO.	APL324-1220	VER:	A1
			PART NO.	ST-0223

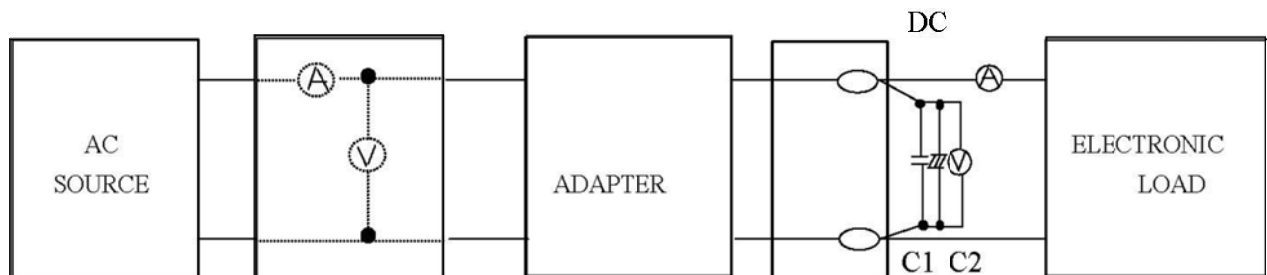
1.INPUT REQUIREMENT

ITEM	SPECIFICATION	MIN	TYP.	MAX
NORMAL AC INPUT VOLTAGE	SINGLE PHASE	100Vac	110Vac/220Vac	240Vac
AC INPUT VOLTAGE RANGE	SINGLE PHASE	90Vac	110Vac/220Vac	264Vac
AC INPUT FREQUENCY	SINGLE PHASE	47Hz	50/60Hz	63Hz
AC INPUT CURRENT	TYPICAL INPUT VOLTAGE& OUTPUT AT FULL LOAD.			550mA
AC INRUSH CURRENT	TYPICAL INPUT VOLTAGE& OUTPUT AT FULL LOAD , 25°C.			30A
EFFICIENCY	TYPICAL INPUT VOLTAGE& OUTPUT AT FULL LOAD	65%		

2.OUTPUT SPECIFICATION

ITEM	SPECIFICATION	MIN	TYP.	MAX
NORMAL DC OUTPUT VOLTAGE			12Vdc	
DC OUTPUT VOLTAGE RANGE	TYPICAL OUTPUT VOLTAGE $\pm 5\%$	11.4V		12.6V
LOAD CURRENT RANGE		0A		2A
PEAK LOAD CURRENT	TIME<60S			2.4A
RIPPLE	TYPICAL INPUT VOLTAGE , TYPICAL LOAD CURRENT , 25°C			120mV
HOLD-UP TIME	AT TYPICAL INPUT VOLTAGE AND FULL LOAD	10mS		
TURN-ON DELAY	TYPICAL INPUT VOLTAGE AND TYPICAL LOAD			1S
OVER CURRENT PROTECTION	AUTO RECOVERY			
SHORT CIRCUIT PROTECTRON	THE ADAPTER SHALL NOT DAMAGE BY SHORT THE DC OUTPUT TO GROUND			
OVER VOLTAGE PROTECTION			13.8V	18V

*TEST MEASURES



C1: 0.1uF CERAMICS CAPACITOR
C2: 10uF 50V ALUMINUM CAPACITOR

Anthin	DESCRIPTION	SWITCHING POWER AC ADAPTER	SHEET NO.	3 OF 4
	MODEL NO.	APL324-1220	VER:	A1
			PART NO.	ST-0223

3.MECHANICAL

ITEM	SPECIFICATION OR TEST CONDITION	ACCEPTANCE CRITERIA
BENDING TEST	NORMAL TEMPERATURE THE CORD SHALL WITHSTAND WEIGHT OF 200g, SWINGING FROM LEFT TO RIGHT AT AN ANGLE OF 60 DEG. 1000CYCLE TIMES MIN. S/R SHALL WITHSTAND WEIGHT OF 1N. SWINGING FROM LEFT TO RIGHT AT AN ANGLE OF 60DEG. 1000CYCLE TIMES MIN. BENDING SPEED 40CYCLE/MINUTE	NO SHORT CIRCUIT NO BREAKAGE OF THE CORD
VIBRATION	FREQUENCY RANGE:10~55Hz AMPLITUDE:1.5mm ACCELERATION: 1G SWEEP 1 MINUTE FOR X,Y,Z,AXIS EACH	THERE SHALL BENO ABNORMALITY ON THE APPEARANCE STRUCTURE AND OPERATING

4.RELIABILITY

ITEM	TEST CONDITION	ACCEPTANCE CRITERIA
TEMPERATURE UP WITH TYPICAL LOAD	TEST THE SURFACE OF THE CASE WITH TYPICAL LOAD OUTPUT AND TYPICAL AC INPUT 50/60Hz	TEMPERATURE UP UNDER 35 DEGREES
HI-POT TEST	INPUT TO OUTPUT GRADUALLY RAISED FROM 0 TO THE 3000Vac AND HELD AT THAT VALUE FOR 3S,5mA	NO DAMAGE
INSULATION RESISTANCE	INPUT TO OUTPUT,DC 500V	>100MΩ
MTBF	TYPICAL INPUT&FULL LOAD , 25℃	50000 HOURS
LIFE	TYPICAL INPUT&FULL LOAD, 40℃ TYPICAL INPUT&FULL LOAD, 25℃	1YEARS ABOVE 2YEARS ABOVE
BURN-IN	AT 30℃(±10℃),NORMAL INPUT VOLTAGE	2~4 HOURS

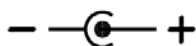
5.ENVIRONMENT

ITEM	SPECIFICATION OR TEST CONDITION	min.	typ.	max.
OPERATING TEMPERATURE		0℃		40℃
STORAGE TEMPERATURE		-20℃		85℃
OPERATING HUMIDITY	NON-CONDENSING	5%RH		90%RH
STORAGE HUMIDITY	NON-CONDENSING	5%RH		90%RH

Anthin	DESCRIPTION	SWITCHING POWER	SHEET NO.	4 OF 4
	N	AC ADAPTER	VER:	A1
	MODEL NO.	APL324-1220	PART NO.	ST-0223

6.OUTLOOKING

DIMENSION :96(L)X43.7(W)X27.8(H)mm
 WEIGHT :ABOUT 150g
 AC INPUT TYPE : WALL MOUNT
 DC OUTPUT TYPE :5.5×2.1×9.5MM S TYPE



DC OUTPUT CABLE	:USE UL 2468 20AWG WIRE	RoHS COMPLIANT
INDICATION	:LABEL	RoHS COMPLIANT
CASE MATERIAL	:94V-0 ABS+PC BLACK	RoHS COMPLIANT
PCB MATERIAL	:94V-0	RoHS COMPLIANT

7.SAFETY

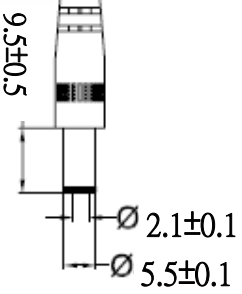
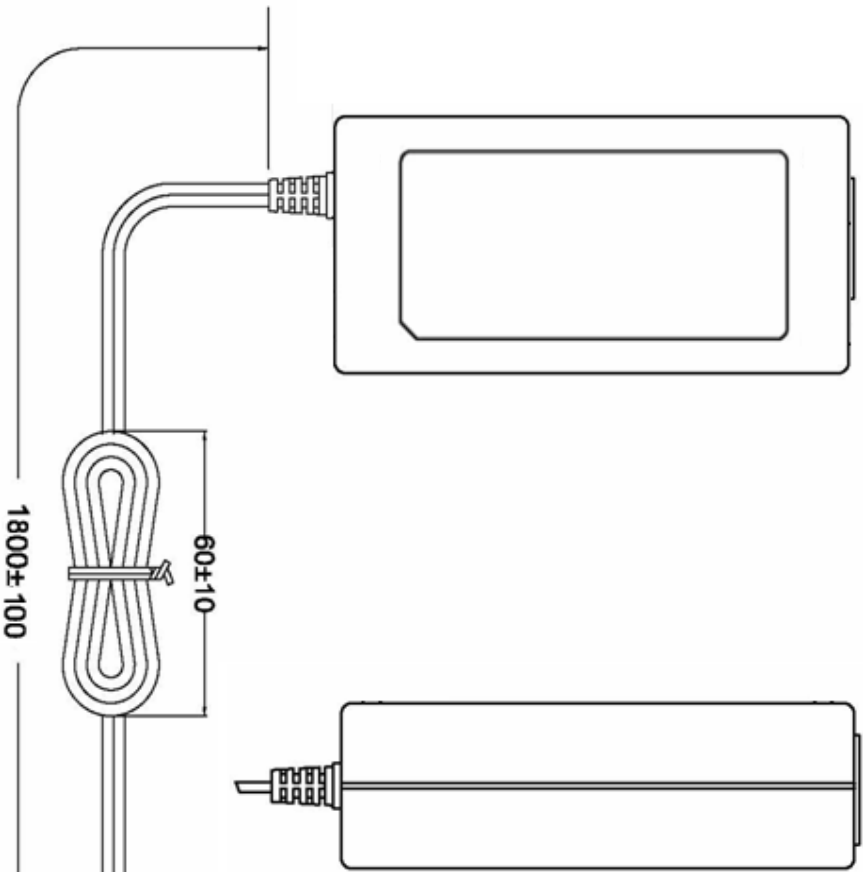
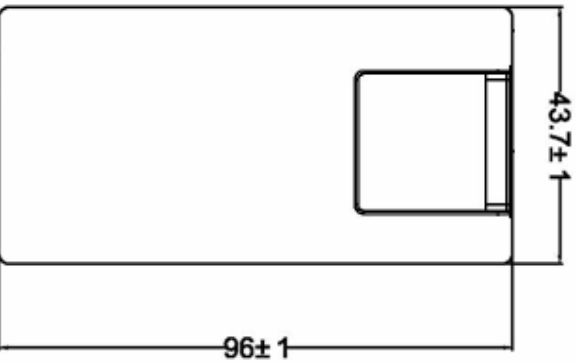
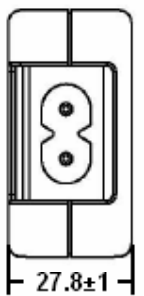
COMPLY SAFETY STANDARDS	STANDARD	FILE NO.

EMI
CE

8.QC CHECK

ALL OF THE QUANTITY SHALL BE CHECKED BEFORE SHIPMENT,CHECK ITEM AS BELOW:

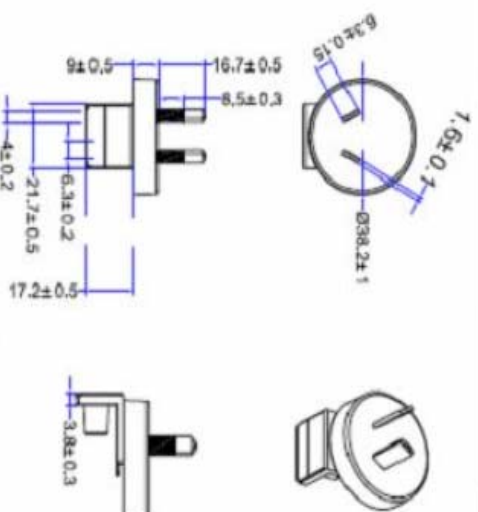
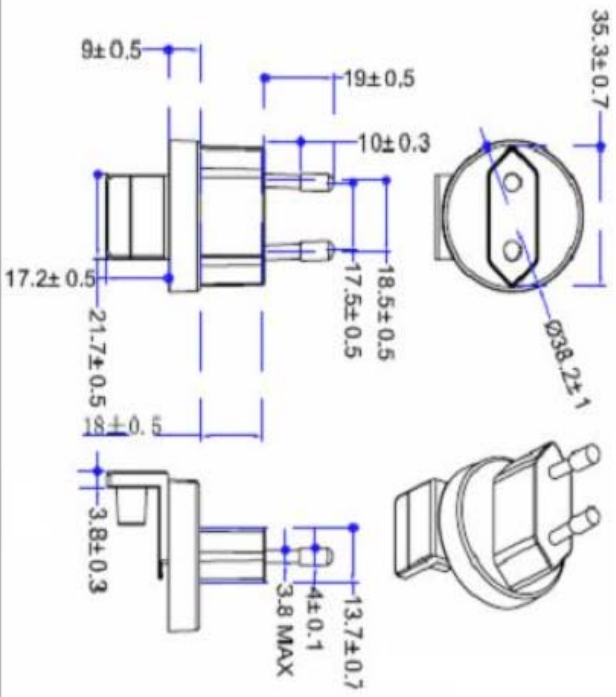
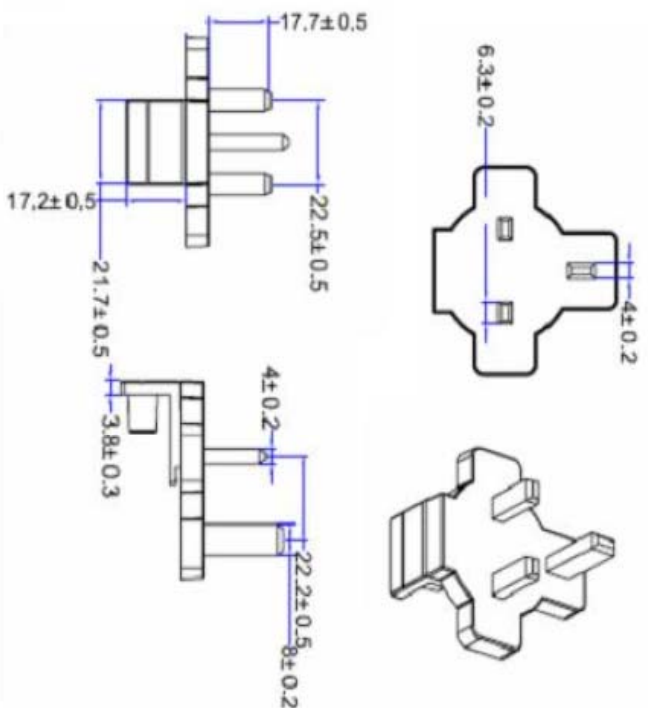
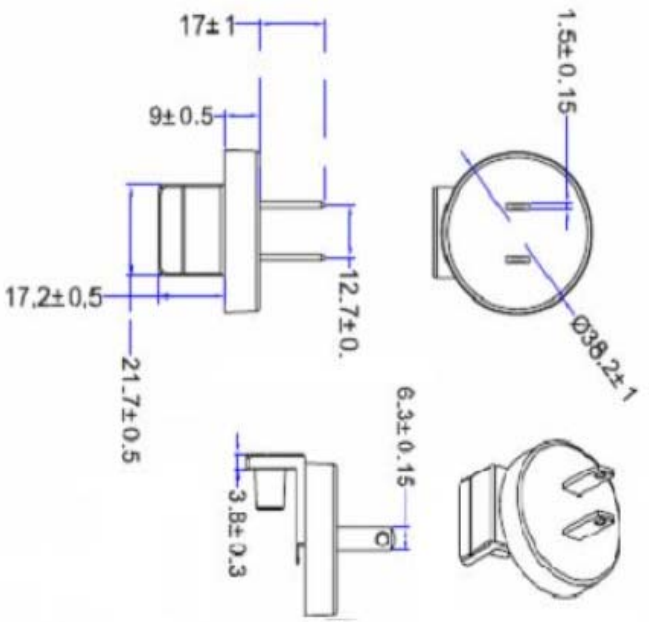
- (1)DC PLUG POLE CHECK
- (2)OCP FUNCTION CHECK
- (3)DC OUTPUT VOLTAGE CHECK
- (4)HIPOT&INSULATION CHECK
- (5)OUTLOOKING CHECK



LEAD	TOLENANCE	FINISH
4-4-620	+0.06 +0.06 +0.1 +0.2	XXXXXX
20-4-650	+0.06 -0.1 +0.2 +0.3	XXX
60-4-6200	+0.1 +0.15 +0.3 +0.4	UNIT
200-CL	+0.15 +0.25 +0.5 +0.8	REV.
	+0.2 +0.4 +0.5 +0.8	A1

DRG.	CHGD.	APPR.	SCALE	UNIT	REV.	NAME
				mm	XXX	DIMENSION
PART NO.						ST-0223

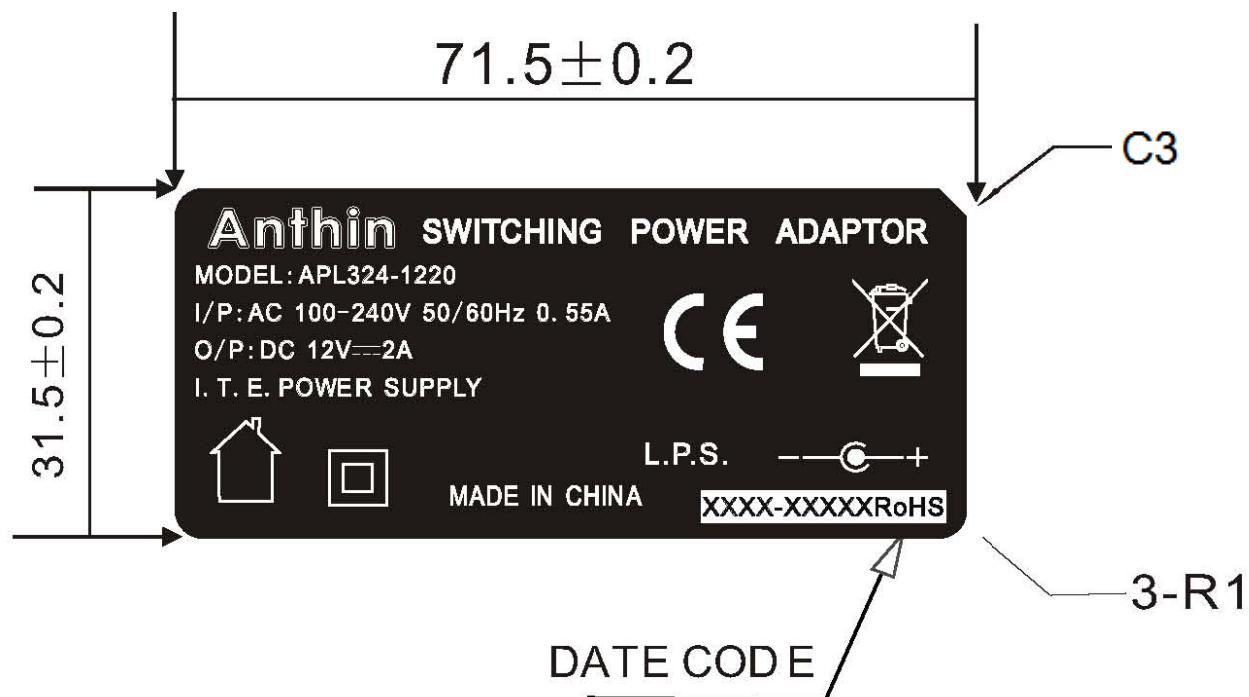
jmh



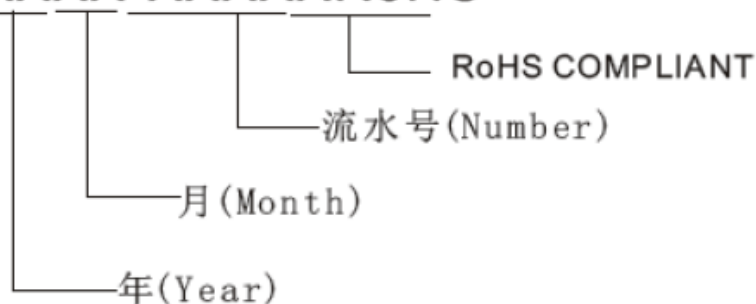
TOLERANCES		FINISH		MATERIAL		UNIT		SCALE		PART NO.	
LEA	TOUSET	TOUSET	TOUSET	XXX	REV.	mm	mm	XXX	XXX	XXX	XXX
4±0.07	4±0.07	4±0.07	4±0.07	XXX		mm	mm	XXX	XXX	XXX	XXX
6±0.07	6±0.07	6±0.07	6±0.07	XXX		mm	mm	XXX	XXX	XXX	XXX
10±0.07	10±0.07	10±0.07	10±0.07	XXX		mm	mm	XXX	XXX	XXX	XXX
15±0.07	15±0.07	15±0.07	15±0.07	XXX		mm	mm	XXX	XXX	XXX	XXX
20±0.07	20±0.07	20±0.07	20±0.07	XXX		mm	mm	XXX	XXX	XXX	XXX
25±0.07	25±0.07	25±0.07	25±0.07	XXX		mm	mm	XXX	XXX	XXX	XXX
30±0.07	30±0.07	30±0.07	30±0.07	XXX		mm	mm	XXX	XXX	XXX	XXX
35±0.07	35±0.07	35±0.07	35±0.07	XXX		mm	mm	XXX	XXX	XXX	XXX
40±0.07	40±0.07	40±0.07	40±0.07	XXX		mm	mm	XXX	XXX	XXX	XXX
45±0.07	45±0.07	45±0.07	45±0.07	XXX		mm	mm	XXX	XXX	XXX	XXX
50±0.07	50±0.07	50±0.07	50±0.07	XXX		mm	mm	XXX	XXX	XXX	XXX
55±0.07	55±0.07	55±0.07	55±0.07	XXX		mm	mm	XXX	XXX	XXX	XXX
60±0.07	60±0.07	60±0.07	60±0.07	XXX		mm	mm	XXX	XXX	XXX	XXX
65±0.07	65±0.07	65±0.07	65±0.07	XXX		mm	mm	XXX	XXX	XXX	XXX
70±0.07	70±0.07	70±0.07	70±0.07	XXX		mm	mm	XXX	XXX	XXX	XXX
75±0.07	75±0.07	75±0.07	75±0.07	XXX		mm	mm	XXX	XXX	XXX	XXX
80±0.07	80±0.07	80±0.07	80±0.07	XXX		mm	mm	XXX	XXX	XXX	XXX
85±0.07	85±0.07	85±0.07	85±0.07	XXX		mm	mm	XXX	XXX	XXX	XXX
90±0.07	90±0.07	90±0.07	90±0.07	XXX		mm	mm	XXX	XXX	XXX	XXX
95±0.07	95±0.07	95±0.07	95±0.07	XXX		mm	mm	XXX	XXX	XXX	XXX
100±0.07	100±0.07	100±0.07	100±0.07	XXX		mm	mm	XXX	XXX	XXX	XXX
105±0.07	105±0.07	105±0.07	105±0.07	XXX		mm	mm	XXX	XXX	XXX	XXX
110±0.07	110±0.07	110±0.07	110±0.07	XXX		mm	mm	XXX	XXX	XXX	XXX
115±0.07	115±0.07	115±0.07	115±0.07	XXX		mm	mm	XXX	XXX	XXX	XXX
120±0.07	120±0.07	120±0.07	120±0.07	XXX		mm	mm	XXX	XXX	XXX	XXX
125±0.07	125±0.07	125±0.07	125±0.07	XXX		mm	mm	XXX	XXX	XXX	XXX
130±0.07	130±0.07	130±0.07	130±0.07	XXX		mm	mm	XXX	XXX	XXX	XXX
135±0.07	135±0.07	135±0.07	135±0.07	XXX		mm	mm	XXX	XXX	XXX	XXX
140±0.07	140±0.07	140±0.07	140±0.07	XXX		mm	mm	XXX	XXX	XXX	XXX
145±0.07	145±0.07	145±0.07	145±0.07	XXX		mm	mm	XXX	XXX	XXX	XXX
150±0.07	150±0.07	150±0.07	150±0.07	XXX		mm	mm	XXX	XXX	XXX	XXX
155±0.07	155±0.07	155±0.07	155±0.07	XXX		mm	mm	XXX	XXX	XXX	XXX
160±0.07	160±0.07	160±0.07	160±0.07	XXX		mm	mm	XXX	XXX	XXX	XXX
165±0.07	165±0.07	165±0.07	165±0.07	XXX		mm	mm	XXX	XXX	XXX	XXX
170±0.07	170±0.07	170±0.07	170±0.07	XXX		mm	mm	XXX	XXX	XXX	XXX
175±0.07	175±0.07	175±0.07	175±0.07	XXX		mm	mm	XXX	XXX	XXX	XXX
180±0.07	180±0.07	180±0.07	180±0.07	XXX		mm	mm	XXX	XXX	XXX	XXX
185±0.07	185±0.07	185±0.07	185±0.07	XXX		mm	mm	XXX	XXX	XXX	XXX
190±0.07	190±0.07	190±0.07	190±0.07	XXX		mm	mm	XXX	XXX	XXX	XXX
195±0.07	195±0.07	195±0.07	195±0.07	XXX		mm	mm	XXX	XXX	XXX	XXX
200±0.07	200±0.07	200±0.07	200±0.07	XXX		mm	mm	XXX	XXX	XXX	XXX

DIMENSION

ST-0223



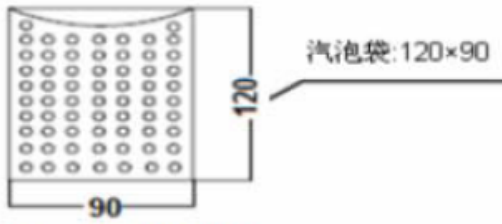
XXXX-XXXXXRoHS



NOTE:

- 1.SILVER WORD(银字) ON BLACK BASE(黑底).
- 2.MATERIAL:PVC + MYLAR FILM
- 3.ROHS COMPLIANT.

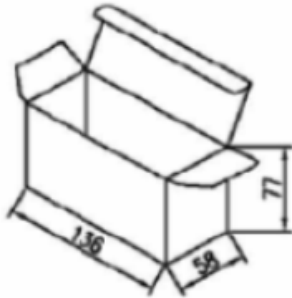
TOLERANCE					FINISH	NAME: LABEL	
L < 4	0.05	0.08	0.1	0.2		MATERIAL	QTY
4 < L < 20	0.08	0.1	0.2	0.3	A1		
20 < L < 50	0.1	0.15	0.3	0.4	SCALE	PART NO.	ST-0223
50 < L < 200	0.15	0.25	0.4	0.6			
200 < L	0.2	0.4	0.5	0.8	UNIT	mm	
DEG.	CHKD.	APPD.	REF.		REM.		
Anni							



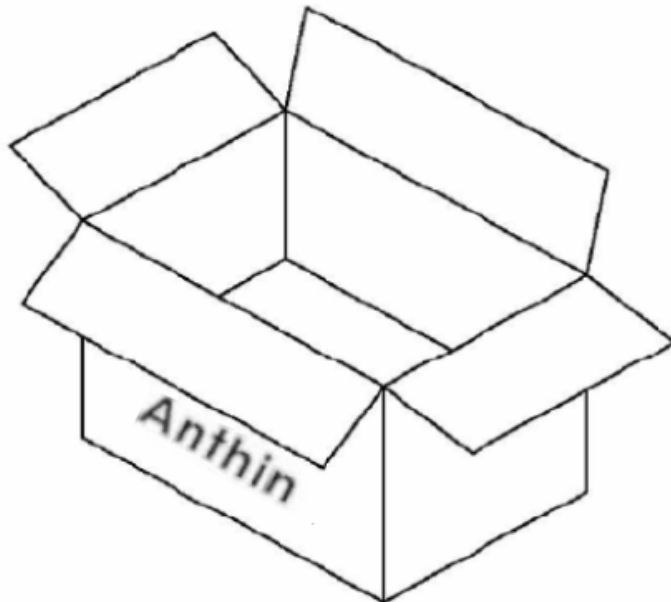
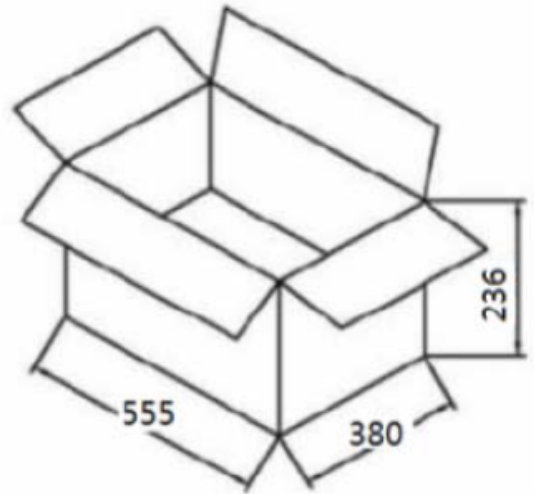
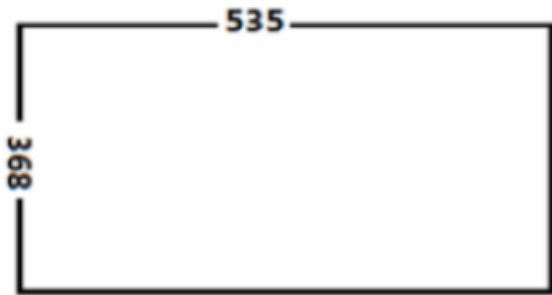
汽泡袋:120×90

注:汽泡袋不用胶纸固定

成品1PCS装入汽泡袋+可换头放入小白盒
小白盒材质 (450G)
外径尺寸:长*宽*高
L*W*H (136*58*77mm)
TOLERANCE : ±1



WHITE INNER BOX+OUT CARTON
WHITE INNER BOX OUT SIDE DIMENSION :
L*W*H (136*58*77mm)
TOLERANCE : ±1



成品67PCS装入外箱
外箱3段:K=A
外径尺寸:长*宽*高
L555*W380*H236mm
平卡尺寸:长*宽
L535*W368mm

TOLERANCE					FINISH		
L<4	±0.05	±0.08	±0.1	±0.2			
4<L<20	±0.08	±0.1	±0.2	±0.3			
20<L<50	±0.1	±0.15	±0.3	±0.4			
50<L<200	±0.15	±0.25	±0.4	±0.6	MATERIAL	REV. A1	
200<L	±0.2	±0.4	±0.5	±0.8			
DEG.	CHKD.	APPD.	UNIT	mm	NAME 12.PACKING		
Anni			SCALE	REF.	PART NO. ST-0223		
				DWG NO.			