

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

Customer :

# APPROVAL SHEET

PRODUCT: AC ADAPTOR(RoHS Compliant)

MODEL: APK312-3320

PART NO. ST-0094

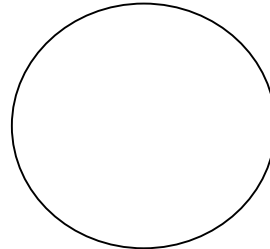
V : A1

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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<b>Anthin</b>	<b>DESCRIPTION</b>	<b>SWITCHING POWER AC ADAPTER</b>	<b>SHEET NO.</b>	<b>1 OF 4</b>
			<b>VER:</b>	<b>A1</b>
	<b>MODEL NO.</b>	<b>APK312-3320</b>	<b>PART NO.</b>	<b>ST-0094</b>

1.INPUT REQUIREMENT

2.OUTPUT SPECIFICATION

3.MECHANICAL

4.RELIABILITY

5.ENVIRONMENT

6.OUTLOOKING

7.SAFETY

8.QC CHECK

9.DIMENSION

10.LABEL

11.PACKING

<b>Anthin</b>	<b>DESCRIPTION</b>	<b>SWITCHING POWER AC ADAPTER</b>	<b>SHEET NO.</b>	<b>2 OF 4</b>
			<b>VER:</b>	<b>A1</b>
	<b>MODEL NO.</b>	<b>APK312-3320</b>	<b>PART NO.</b>	<b>ST-0094</b>

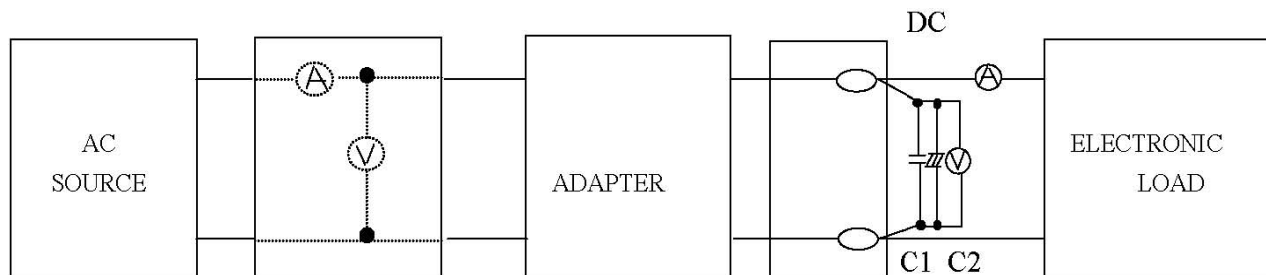
### 1.INPUT REQUIREMENT

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.			300mA
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			3.3Vdc	
DC OUTPUT VOLTAGE RANGE	TYPICAL OUTPUT VOLTAGE $\pm 5\%$	3.13V		3.47V
LOAD CURRENT RANGE		0A		2A
PEAK LOAD CURRENT	TIME<60S			2.4A
RIPPLE	TYPICAL INPUT VOLTAGE , TYPICAL LOAD CURRENT , 25°C			50mV
HOLD-UP TIME	AT TYPICAL INPUT VOLTAGE AND FULL LOAD	10mS		
TURN-ON DELAY	TYPICAL INPUT VOLTAGE AND TUP LOAD CURRENT			1S
OVER CURRENT PROTECTION	AUTO RECOVERY			
SHORT CIRCUIT PROTECTRON	THE ADAPTER SHALL NOT DAMAGE BY SHORT THE DC OUTPUT TO GROUND			
OVER VOLTAGE PROTECTION			3.8V	5V

### \*TEST MEASURES



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

<b>Anthin</b>	<b>DESCRIPTION</b>	<b>SWITCHING POWER AC ADAPTER</b>	<b>SHEET NO.</b>	<b>3 OF 4</b>
			<b>VER:</b>	<b>A1</b>
	<b>MODEL NO.</b>	<b>APK312-3320</b>	<b>PART NO.</b>	<b>ST-0094</b>

### 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

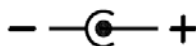
### 5.ENVIRONMENT

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

<b>Anthin</b>	<b>DESCRIPTION</b>	<b>SWITCHING POWER</b>	<b>SHEET NO.</b>	<b>4 OF 4</b>
		<b>AC ADAPTER</b>	<b>VER:</b>	<b>A1</b>
	<b>MODEL NO.</b>	<b>APK312-3320</b>	<b>PART NO.</b>	<b>ST-0094</b>

### 6.OUTLOOKING

DIMENSION :49(L)X46.3(W)X32(H)mm  
 WEIGHT :ABOUT 85g  
 AC INPUT TYPE :WALL MOUNT  
 DC OUTPUT TYPE : 5.5×2.1×9.5 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
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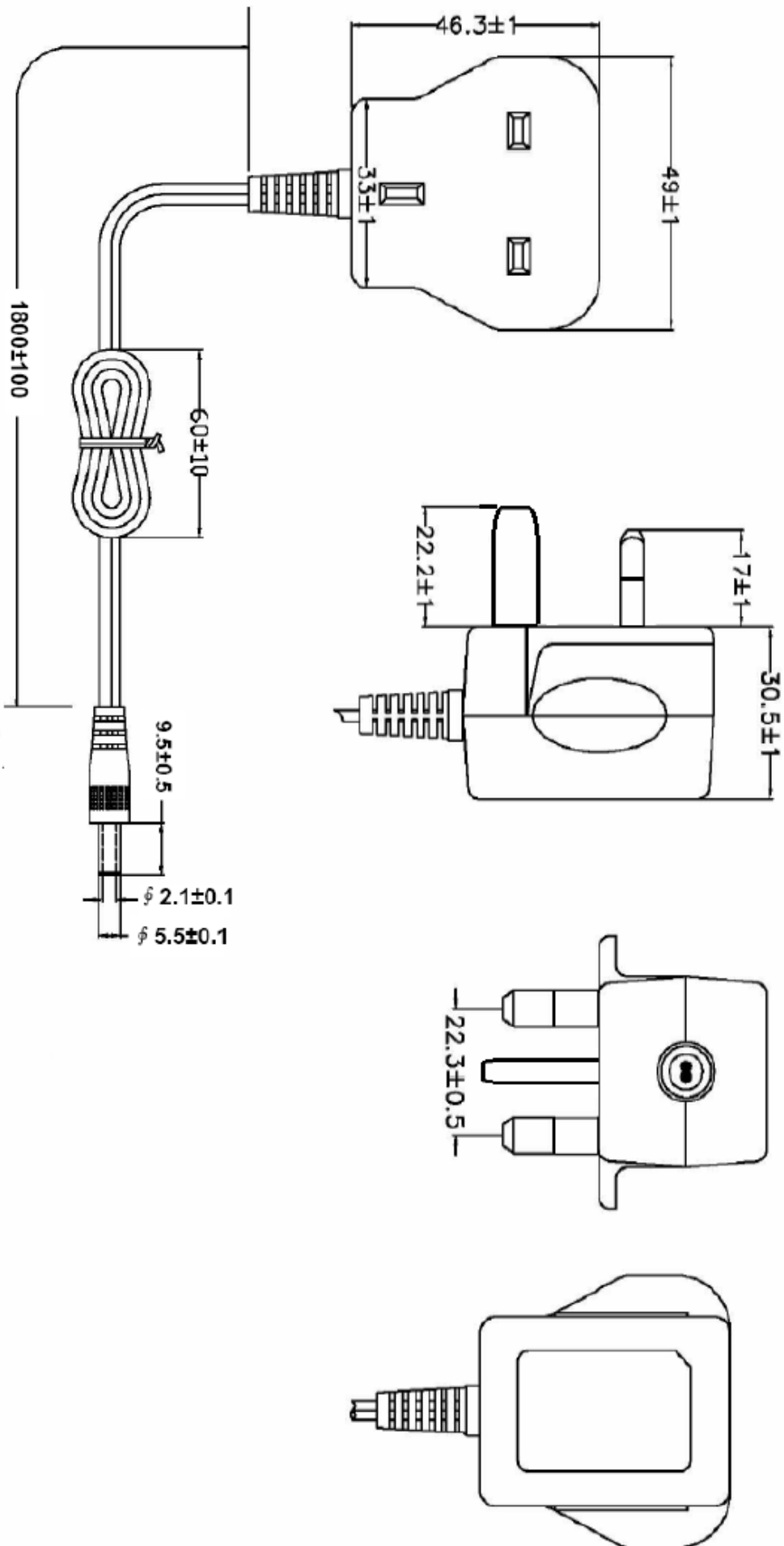
CE
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### 8.QC CHECK

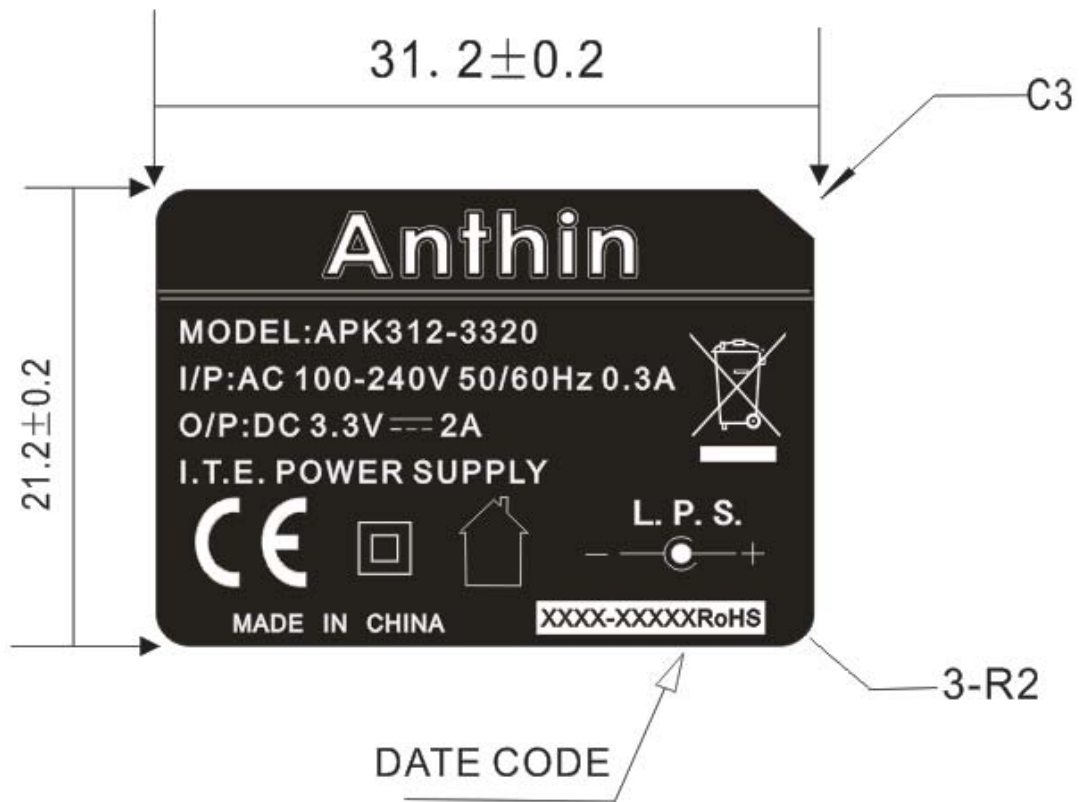
ALL OF THE QUANTITY SHALL BE CHECKED BEFORE SHIPMENT,CHECK ITEM AS BELOW:

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

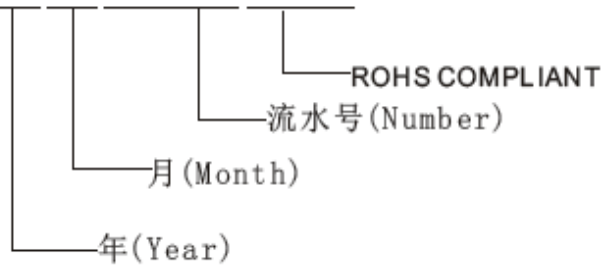
RoHS COMPLIANT



TOLERANCE		FINISH		UNIT		NAME	
1 < 1.6	$\pm 0.08$	1 < 1.6	XXX	UNIT	XXX	NAME	10. DIMENSION
1.6 < 3.2	$\pm 0.1$	1.6 < 3.2	XXX	REF.	XXX		
3.2 < 6.3	$\pm 0.15$	3.2 < 6.3	XXX	DWG NO.	XXX		
6.3 < 12.5	$\pm 0.2$	6.3 < 12.5	XXX				
12.5 < 25	$\pm 0.3$	12.5 < 25	XXX				
25 < 50	$\pm 0.4$	25 < 50	XXX				
50 < 100	$\pm 0.5$	50 < 100	XXX				
100 < 200	$\pm 0.6$	100 < 200	XXX				
200 < 500	$\pm 0.8$	200 < 500	XXX				
500 < 1000	$\pm 1.0$	500 < 1000	XXX				
1000 < 2000	$\pm 1.2$	1000 < 2000	XXX				
2000 < 5000	$\pm 1.5$	2000 < 5000	XXX				
5000 < 10000	$\pm 2.0$	5000 < 10000	XXX				
10000 < 20000	$\pm 2.5$	10000 < 20000	XXX				
20000 < 50000	$\pm 3.0$	20000 < 50000	XXX				
50000 < 100000	$\pm 4.0$	50000 < 100000	XXX				
100000 < 200000	$\pm 5.0$	100000 < 200000	XXX				
200000 < 500000	$\pm 6.0$	200000 < 500000	XXX				
500000 < 1000000	$\pm 8.0$	500000 < 1000000	XXX				
1000000 < 2000000	$\pm 10.0$	1000000 < 2000000	XXX				
2000000 < 5000000	$\pm 12.0$	2000000 < 5000000	XXX				
5000000 < 10000000	$\pm 15.0$	5000000 < 10000000	XXX				
10000000 < 20000000	$\pm 20.0$	10000000 < 20000000	XXX				
20000000 < 50000000	$\pm 25.0$	20000000 < 50000000	XXX				
50000000 < 100000000	$\pm 30.0$	50000000 < 100000000	XXX				
100000000 < 200000000	$\pm 40.0$	100000000 < 200000000	XXX				
200000000 < 500000000	$\pm 50.0$	200000000 < 500000000	XXX				
500000000 < 1000000000	$\pm 60.0$	500000000 < 1000000000	XXX				
1000000000 < 2000000000	$\pm 80.0$	1000000000 < 2000000000	XXX				
2000000000 < 5000000000	$\pm 100.0$	2000000000 < 5000000000	XXX				
5000000000 < 10000000000	$\pm 120.0$	5000000000 < 10000000000	XXX				
10000000000 < 20000000000	$\pm 150.0$	10000000000 < 20000000000	XXX				
20000000000 < 50000000000	$\pm 200.0$	20000000000 < 50000000000	XXX				
50000000000 < 100000000000	$\pm 250.0$	50000000000 < 100000000000	XXX				
100000000000 < 200000000000	$\pm 300.0$	100000000000 < 200000000000	XXX				
200000000000 < 500000000000	$\pm 400.0$	200000000000 < 500000000000	XXX				
500000000000 < 1000000000000	$\pm 500.0$	500000000000 < 1000000000000	XXX				
1000000000000 < 2000000000000	$\pm 600.0$	1000000000000 < 2000000000000	XXX				
2000000000000 < 5000000000000	$\pm 800.0$	2000000000000 < 5000000000000	XXX				
5000000000000 < 10000000000000	$\pm 1000.0$	5000000000000 < 10000000000000	XXX				
10000000000000 < 20000000000000	$\pm 1200.0$	10000000000000 < 20000000000000	XXX				
20000000000000 < 50000000000000	$\pm 1500.0$	20000000000000 < 50000000000000	XXX				
50000000000000 < 100000000000000	$\pm 2000.0$	50000000000000 < 100000000000000	XXX				
100000000000000 < 200000000000000	$\pm 2500.0$	100000000000000 < 200000000000000	XXX				
200000000000000 < 500000000000000	$\pm 3000.0$	200000000000000 < 500000000000000	XXX				
500000000000000 < 1000000000000000	$\pm 4000.0$	500000000000000 < 1000000000000000	XXX				
1000000000000000 < 2000000000000000	$\pm 5000.0$	1000000000000000 < 2000000000000000	XXX				
2000000000000000 < 5000000000000000	$\pm 6000.0$	2000000000000000 < 5000000000000000	XXX				
5000000000000000 < 10000000000000000	$\pm 8000.0$	5000000000000000 < 10000000000000000	XXX				
10000000000000000 < 20000000000000000	$\pm 10000.0$	10000000000000000 < 20000000000000000	XXX				
20000000000000000 < 50000000000000000	$\pm 12000.0$	20000000000000000 < 50000000000000000	XXX				
50000000000000000 < 100000000000000000	$\pm 15000.0$	50000000000000000 < 100000000000000000	XXX				
100000000000000000 < 200000000000000000	$\pm 20000.0$	100000000000000000 < 200000000000000000	XXX				
200000000000000000 < 500000000000000000	$\pm 25000.0$	200000000000000000 < 500000000000000000	XXX				
500000000000000000 < 1000000000000000000	$\pm 30000.0$	500000000000000000 < 1000000000000000000	XXX				
1000000000000000000 < 2000000000000000000	$\pm 40000.0$	1000000000000000000 < 2000000000000000000	XXX				
2000000000000000000 < 5000000000000000000	$\pm 50000.0$	2000000000000000000 < 5000000000000000000	XXX				
5000000000000000000 < 10000000000000000000	$\pm 60000.0$	5000000000000000000 < 10000000000000000000	XXX				
10000000000000000000 < 20000000000000000000	$\pm 80000.0$	10000000000000000000 < 20000000000000000000	XXX				
20000000000000000000 < 50000000000000000000	$\pm 100000.0$	20000000000000000000 < 50000000000000000000	XXX				
50000000000000000000 < 100000000000000000000	$\pm 120000.0$	50000000000000000000 < 100000000000000000000	XXX				
100000000000000000000 < 200000000000000000000	$\pm 150000.0$	100000000000000000000 < 200000000000000000000	XXX				
200000000000000000000 < 500000000000000000000	$\pm 200000.0$	200000000000000000000 < 500000000000000000000	XXX				
500000000000000000000 < 1000000000000000000000	$\pm 250000.0$	500000000000000000000 < 1000000000000000000000	XXX				
1000000000000000000000 < 2000000000000000000000	$\pm 300000.0$	1000000000000000000000 < 2000000000000000000000	XXX				
2000000000000000000000 < 5000000000000000000000	$\pm 400000.0$	2000000000000000000000 < 5000000000000000000000	XXX				
5000000000000000000000 < 10000000000000000000000	$\pm 500000.0$	5000000000000000000000 < 10000000000000000000000	XXX				
10000000000000000000000 < 20000000000000000000000	$\pm 600000.0$	10000000000000000000000 < 20000000000000000000000	XXX				
20000000000000000000000 < 50000000000000000000000	$\pm 800000.0$	20000000000000000000000 < 50000000000000000000000	XXX				
50000000000000000000000 < 100000000000000000000000	$\pm 1000000.0$	50000000000000000000000 < 100000000000000000000000	XXX				
100000000000000000000000 < 200000000000000000000000	$\pm 1200000.0$	100000000000000000000000 < 200000000000000000000000	XXX				
200000000000000000000000 < 500000000000000000000000	$\pm 1500000.0$	200000000000000000000000 < 500000000000000000000000	XXX				
500000000000000000000000 < 1000000000000000000000000	$\pm 2000000.0$	500000000000000000000000 < 1000000000000000000000000	XXX				
1000000000000000000000000 < 2000000000000000000000000	$\pm 2500000.0$	1000000000000000000000000 < 2000000000000000000000000	XXX				
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20000000000000000000000000 < 50000000000000000000000000	$\pm 6000000.0$	20000000000000000000000000 < 50000000000000000000000000	XXX				
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100000000000000000000000000 < 200000000000000000000000000	$\pm 10000000.0$	100000000000000000000000000 < 200000000000000000000000000	XXX				
200000000000000000000000000 < 500000000000000000000000000	$\pm 12000000.0$	200000000000000000000000000 < 500000000000000000000000000	XXX				
500000000000000000000000000 < 1000000000000000000000000000	$\pm 15000000.0$	500000000000000000000000000 < 1000000000000000000000000000	XXX				
1000000000000000000000000000 < 2000000000000000000000000000	$\pm 20000000.0$	1000000000000000000000000000 < 2000000000000000000000000000	XXX				
2000000000000000000000000000 < 5000000000000000000000000000	$\pm 25000000.0$	2000000000000000000000000000 < 5000000000000000000000000000	XXX				
5000000000000000000000000000 < 10000000000000000000000000000	$\pm 30000000.0$	5000000000000000000000000000 < 10000000000000000000000000000	XXX				
10000000000000000000000000000 < 20000000000000000000000000000	$\pm 40000000.0$	10000000000000000000000000000 < 20000000000000000000000000000	XXX				
20000000000000000000000000000 < 50000000000000000000000000000	$\pm 50000000.0$	20000000000000000000000000000 < 50000000000000000000000000000	XXX				
50000000000000000000000000000 < 100000000000000000000000000000	$\pm 60000000.0$	50000000000000000000000000000 < 100000000000000000000000000000	XXX				
100000000000000000000000000000 < 200000000000000000000000000000	$\pm 80000000.0</$						



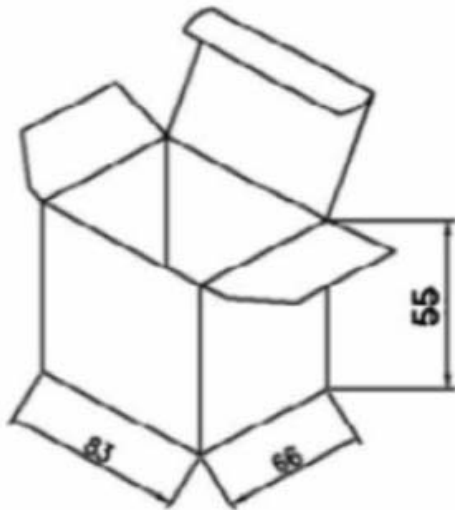
XXXX-XXXXXRoHS



**NOTE:**

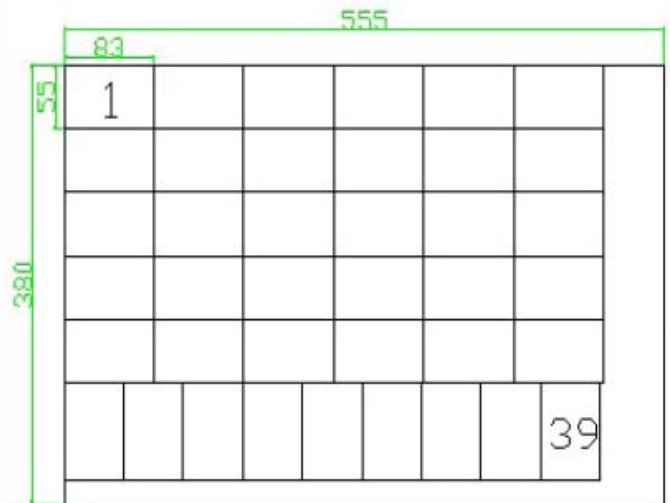
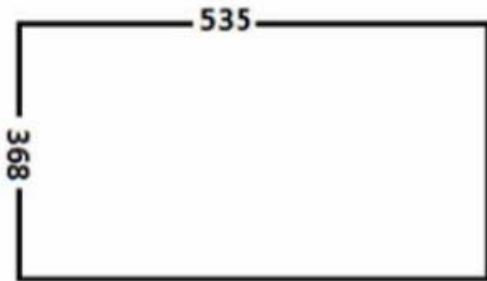
- 1.SILVER WORD(银字) ON BLACK BASE(黑底).
- 2.MATERIAL:PVC + MYLAR FILM
- 3.ROHS COMPLIANT.

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	UNIT mm	PART NO.	ST-0094
50 < L ≤ 200	0.15	0.25	0.4	0.6			
200 < L	0.2	0.4	0.5	0.8			
DEG.	CHKD.	APPD.	SCALE		REF.	REV.	PART NO.
Anni			UNIT mm		REF.		
			REM.		REM.		

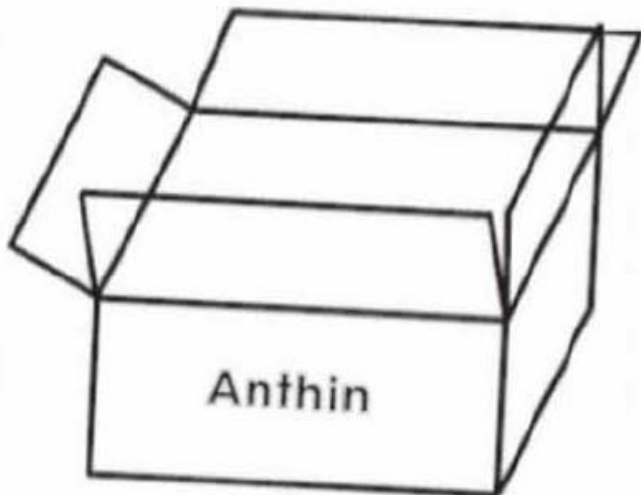


成品1PCS装入小白盒  
 小白盒材质 (450G)  
 外径尺寸 : 长\*宽\*高  
 L\*W\*H ( 83\*66\*55mm )  
 TOLERANCE : ±1

WHITE INNER BOX+OUT CARTON  
 WHITE INNER BOX OUT SIDE DIMENSION :  
 L\*W\*H ( 83\*66\*55mm )  
 TOLERANCE : ±1



每层装39个小白盒，共可装3层。



成品117PCS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	MATERIAL	REV.	A1	NAME	PACKING
L < 4	4 < L < 20	20 < L < 50	50 < L < 100	100 < L						
±0.08	±0.1	±0.15	±0.2	±0.3						
±0.1	±0.15	±0.2	±0.3	±0.4						
±0.15	±0.2	±0.3	±0.4	±0.5						
±0.2	±0.4	±0.5	±0.8	±1.0						
DEG.	CHKD.	APPD.	SCALE	UNIT	REF.	DWG NO.	PART NO.	ST-0094		
Anni				mm						