

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

Customer :

APPROVAL SHEET

PRODUCT: AC ADAPTOR(RoHS Compliant)

MODEL: APE315-1212

PART NO. ST-0155

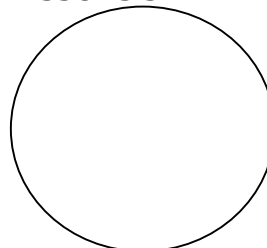
V : A1

Receiver's stamp or signature

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

RESPONSIBLE	APPROVED	ISSUED
		nishuang

ISSUES STAMP



Revised History

NO.	Revised Date	Description	Approved	Issued



Anthin Power Supply Co.,Ltd. (China)

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FAX:+86-755-8980-1111

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Anthin	DESCRIPTION	SWITCHING POWER AC ADAPTER	SHEET NO.	1 OF 4
			VER:	A1
	MODEL NO.	APE315-1212	PART NO.	ST-0155
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				

Anthin	DESCRIPTION	SWITCHING POWER AC ADAPTER	SHEET NO.	2 OF 4
			VER:	A1
	MODEL NO.	APE315-1212	PART NO.	ST-0155

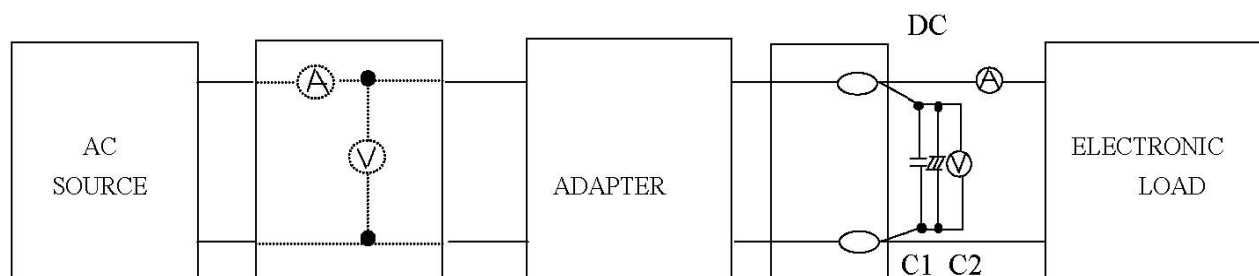
1.INPUT REQUIREMENT

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℃.			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 ±5%	11.4V		12.6V
LOAD CURRENT RANGE		0A		1.2A
PEAK LOAD CURRENT	TIME<60S			1.5A
RIPPLE	TYPICAL INPUT VOLTAGE , TYPICAL LOAD CURRENT , 25℃			120mV
HOLD-UP TIME	AT TYPICAL INPUT VOLTAGE AND FULL LOAD	10mS		
TURN-ON DELAY	TYPICAL INPUT VOLTAGE AND TYPICAL LOAD CURRENT			1S
OVER CURRENT PROTECTION	AUTO RECOVERY			
SHORT CIRCUIT PROTECTION	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	SHEET NO.	3 OF 4
		AC ADAPTER	VER:	A1
	MODEL NO.	APE315-1212	PART NO.	ST-0155

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 HUMILITY	NON-CONDENSING	5%RH		90%RH
STORAGE HUMILITY	NON-CONDENSING	5%RH		90%RH

Anthin	DESCRIPTION	SWITCHING POWER AC ADAPTER	SHEET NO.	4 OF 4
			VER:	A1
	MODEL NO.	APE315-1212	PART NO.	ST-0155

6.OUTLOOKING

DIMENSION

WEIGHT

AC INPUT TYPE

DC OUTPUT TYPE

:60(L)X44(W)X26(H)mm

:ABOUT 110g

:WALL MOUNT

:5.5*2.1*9.5MM S TYPE



DC OUTPUT CABLE

INDICATION

CASE MATERIAL

PCB MATERIAL

:USE UL 2468 20AWG WIRE

:LABEL

:94V-0 ABS+PC BLACK

:94V-0

RoHS COMPLIANT

RoHS COMPLIANT

RoHS COMPLIANT

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:

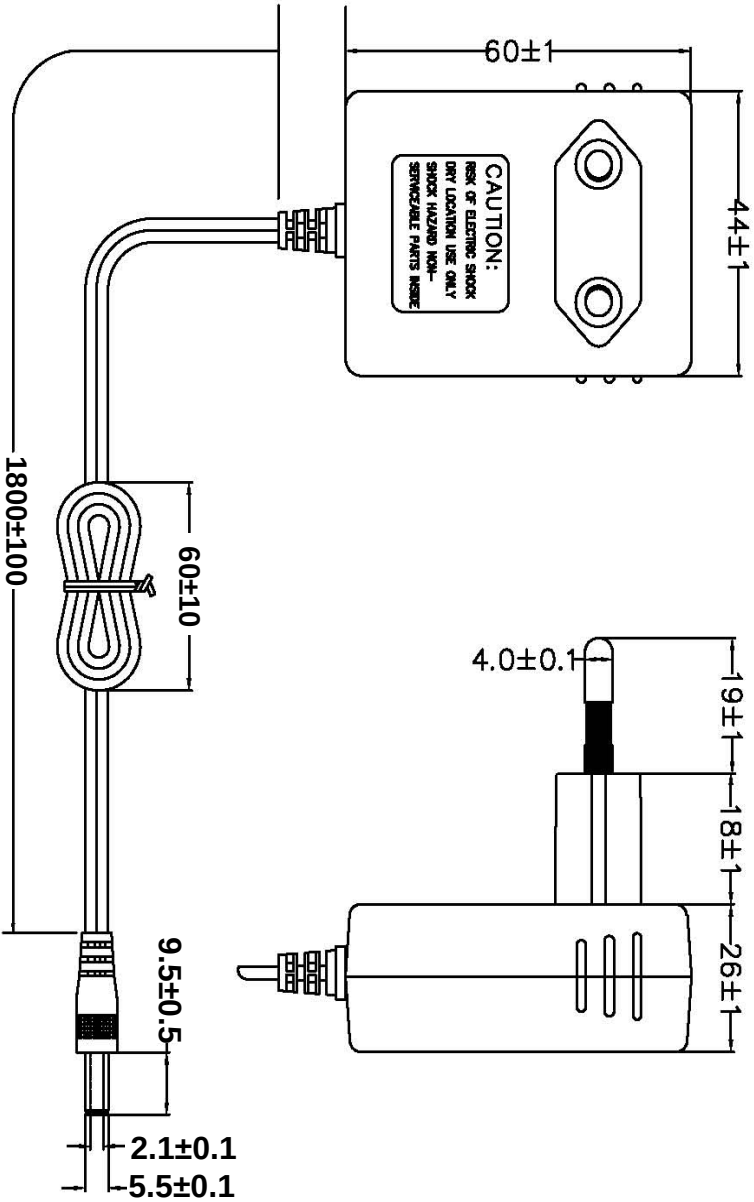
(1)DC PLUG POLE CHECK

(2)OCP FUNCTION CHECK

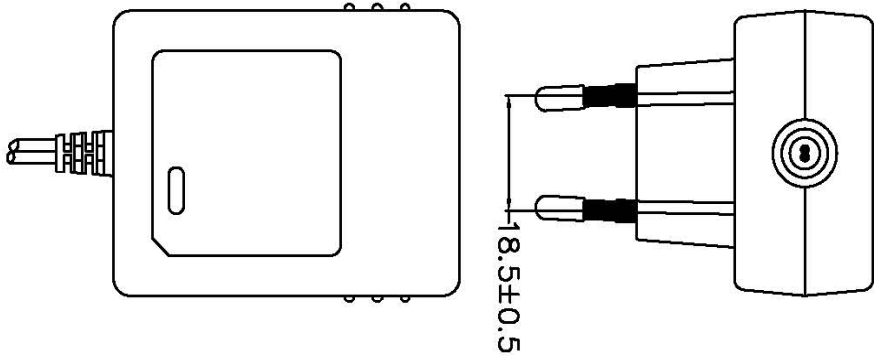
(3)DC OUTPUT VOLTAGE CHECK

(4)HIPOT&INSULATION CHECK

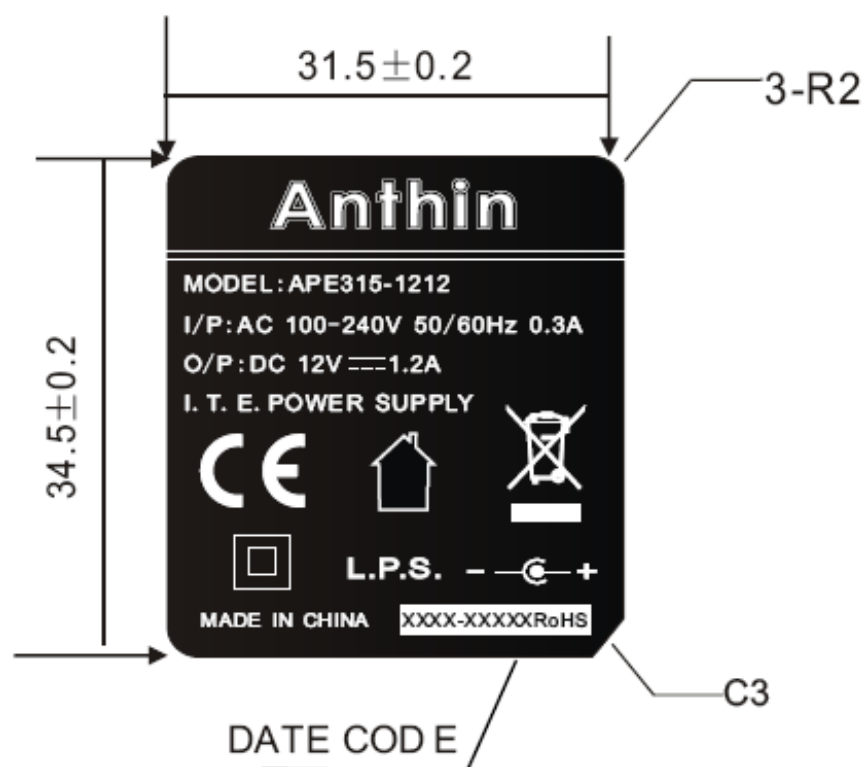
(5)OUTLOOKING CHECK



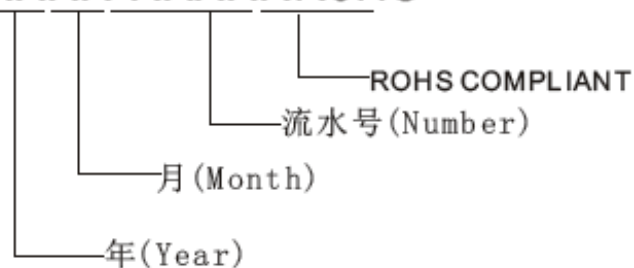
RoHS COMPLIANT



TOLERANCE										FINISH			XXXXXX		XXXXXX		XXXXXX		XXXXXX	
1-4	±0.05	±0.08	±0.1	±0.2																
5-9	±0.05	±0.08	±0.1	±0.2	±0.3															
10-14	±0.1	±0.15	±0.2	±0.3	±0.4															
15-19	±0.1	±0.15	±0.2	±0.3	±0.4															
20-24	±0.1	±0.15	±0.2	±0.3	±0.4															
25-29	±0.1	±0.15	±0.2	±0.3	±0.4															
30-34	±0.1	±0.15	±0.2	±0.3	±0.4															
35-39	±0.1	±0.15	±0.2	±0.3	±0.4															
40-44	±0.1	±0.15	±0.2	±0.3	±0.4															
45-49	±0.1	±0.15	±0.2	±0.3	±0.4															
50-54	±0.1	±0.15	±0.2	±0.3	±0.4															
55-59	±0.1	±0.15	±0.2	±0.3	±0.4															
60-64	±0.1	±0.15	±0.2	±0.3	±0.4															
65-69	±0.1	±0.15	±0.2	±0.3	±0.4															
70-74	±0.1	±0.15	±0.2	±0.3	±0.4															
75-79	±0.1	±0.15	±0.2	±0.3	±0.4															
80-84	±0.1	±0.15	±0.2	±0.3	±0.4															
85-89	±0.1	±0.15	±0.2	±0.3	±0.4															
90-94	±0.1	±0.15	±0.2	±0.3	±0.4															
95-99	±0.1	±0.15	±0.2	±0.3	±0.4															
100-104	±0.1	±0.15	±0.2	±0.3	±0.4															
105-109	±0.1	±0.15	±0.2	±0.3	±0.4															
110-114	±0.1	±0.15	±0.2	±0.3	±0.4															
115-119	±0.1	±0.15	±0.2	±0.3	±0.4															
120-124	±0.1	±0.15	±0.2	±0.3	±0.4															
125-129	±0.1	±0.15	±0.2	±0.3	±0.4															
130-134	±0.1	±0.15	±0.2	±0.3	±0.4															
135-139	±0.1	±0.15	±0.2	±0.3	±0.4															
140-144	±0.1	±0.15	±0.2	±0.3	±0.4															
145-149	±0.1	±0.15	±0.2	±0.3	±0.4															
150-154	±0.1	±0.15	±0.2	±0.3	±0.4															
155-159	±0.1	±0.15	±0.2	±0.3	±0.4															
160-164	±0.1	±0.15	±0.2	±0.3	±0.4															
165-169	±0.1	±0.15	±0.2	±0.3	±0.4															
170-174	±0.1	±0.15	±0.2	±0.3	±0.4															
175-179	±0.1	±0.15	±0.2	±0.3	±0.4															
180-184	±0.1	±0.15	±0.2	±0.3	±0.4															
185-189	±0.1	±0.15	±0.2	±0.3	±0.4															
190-194	±0.1	±0.15	±0.2	±0.3	±0.4															
195-199	±0.1	±0.15	±0.2	±0.3	±0.4															
200-204	±0.1	±0.15	±0.2	±0.3	±0.4															
205-209	±0.1	±0.15	±0.2	±0.3	±0.4															
210-214	±0.1	±0.15	±0.2	±0.3	±0.4															
215-219	±0.1	±0.15	±0.2	±0.3	±0.4															
220-224	±0.1	±0.15	±0.2	±0.3	±0.4															
225-229	±0.1	±0.15	±0.2	±0.3	±0.4															
230-234	±0.1	±0.15	±0.2	±0.3	±0.4															
235-239	±0.1	±0.15	±0.2	±0.3	±0.4															
240-244	±0.1	±0.15	±0.2	±0.3	±0.4															
245-249	±0.1	±0.15	±0.2	±0.3	±0.4															
250-254	±0.1	±0.15	±0.2	±0.3	±0.4															
255-259	±0.1	±0.15	±0.2	±0.3	±0.4															
260-264	±0.1	±0.15	±0.2	±0.3	±0.4															
265-269	±0.1	±0.15	±0.2	±0.3	±0.4															
270-274	±0.1	±0.15	±0.2	±0.3	±0.4															
275-279	±0.1	±0.15	±0.2	±0.3	±0.4															
280-284	±0.1	±0.15	±0.2	±0.3	±0.4															
285-289	±0.1	±0.15	±0.2	±0.3	±0.4															
290-294	±0.1	±0.15	±0.2	±0.3	±0.4															
295-299	±0.1	±0.15	±0.2	±0.3	±0.4															
300-304	±0.1	±0.15	±0.2	±0.3	±0.4															
305-309	±0.1	±0.15	±0.2	±0.3	±0.4															
310-314	±0.1	±0.15	±0.2	±0.3	±0.4															
315-319	±0.1	±0.15	±0.2	±0.3	±0.4															
320-324	±0.1	±0.15	±0.2	±0.3	±0.4															
325-329	±0.1	±0.15	±0.2	±0.3	±0.4															
330-334	±0.1	±0.15	±0.2	±0.3	±0.4															
335-339	±0.1	±0.15	±0.2	±0.3	±0.4															
340-344	±0.1	±0.15	±0.2	±0.3	±0.4															
345-349	±0.1	±0.15	±0.2	±0.3	±0.4															
350-354	±0.1	±0.15	±0.2	±0.3	±0.4															
355-359	±0.1	±0.15	±0.2	±0.3	±0.4															
360-364	±0.1	±0.15	±0.2	±0.3	±0.4															
365-369	±0.1	±0.15	±0.2	±0.3	±0.4															
370-374	±0.1	±0.15	±0.2	±0.3	±0.4															
375-379	±0.1	±0.15	±0.2	±0.3	±0.4															
380-384	±0.1	±0.15	±0.2	±0.3	±0.4															
385-389	±0.1	±0.15	±0.2	±0.3	±0.4															
390-394	±0.1	±0.15	±0.2	±0.3	±0.4															
395-399	±0.1	±0.15	±0.2	±0.3	±0.4															
400-404	±0.1	±0.15	±0.2	±0.3	±0.4															
405-409	±0.1	±0.15	±0.2	±0.3	±0.4															
410-414	±0.1	±0.15	±0.2	±0.3	±0.4															
415-419	±0.1	±0.15	±0.2	±0.3	±0.4															
420-424	±0.1	±0.15	±0.2	±0.3	±0.4															
425-429	±0.1	±0.15	±0.2	±0.3	±0.4															
430-434	±0.1	±0.15	±0.2	±0.3	±0.4															
435-439	±0.1	±0.15	±0.2	±0.3	±0.4															
440-444	±0.1	±0.15	±0.2	±0.3	±0.4															
445-449	±0.1	±0.15	±0.2	±0.3	±0.4															
450-454	±0.1	±0.15	±0.2	±0.3	±0.4															
455-459	±0.1	±0.15	±0.2	±0.3	±0.4															
460-464	±0.1	±0.15	±0.2	±0.3	±0.4															
465-469	±0.1	±0.15	±0.2	±0.3	±0.4															
470-474	±0.1	±0.15	±0.2	±0.3	±0.4															
475-479	±0.1	±0.15	±0.2	±0.3	±0.4															
480-484	±0.1	±0.15	±0.2	±0.3	±0.4															
485-489	±0.1	±0.15	±0.2	±0.3	±0.4															
490-494	±0.1	±0.15	±0.2	±0.3	±0.4															
495-499	±0.1	±0.15	±0.2	±0.3	±0.4															
500-504	±0.1	±0.15	±0.2	±0.3	±0.4															
505-509	±0.1	±0.15	±0.2																	



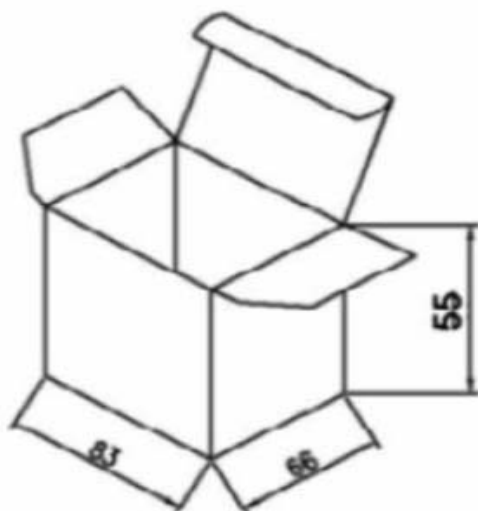
XXXX-XXXXXXRoHS



NOTE:

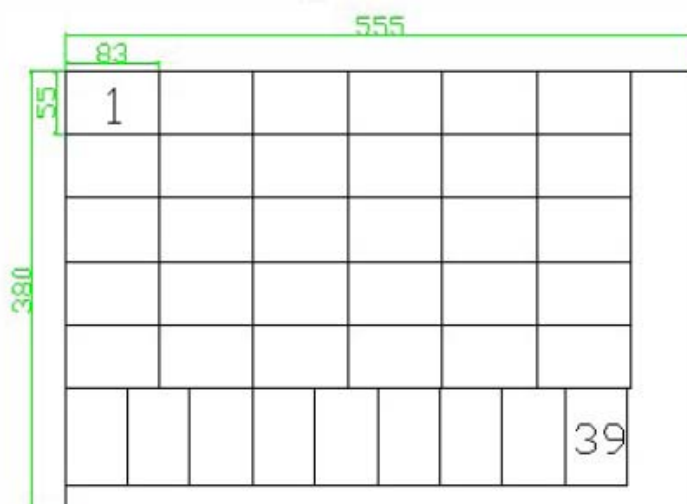
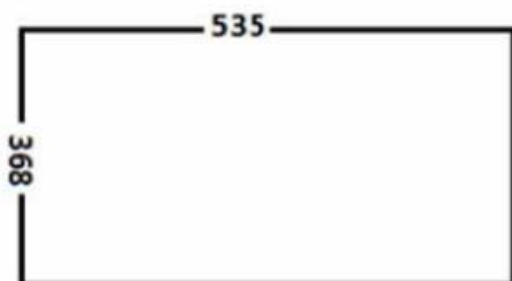
- 1.SILVER WORD(银字) ON BLACK BASE(黑底).
- 2.MATERIAL:PVC + MYLAR FILM
- 3.ROHS COMPLIANT.

TOLERANCE					FINISH				NAME: LABEL		
1 ≤ L	0.05	0.08	0.1	0.2							
4 < L ≤ 20	0.08	0.1	0.2	0.3	MATERIAL	QTY			REV.	A1	
20 < L ≤ 50	0.1	0.15	0.3	0.4							
50 < L ≤ 200	0.15	0.25	0.4	0.6							
200 < L	0.2	0.4	0.6	0.8							
DEG.		CHKD.		APPD.		UNIT	mm			PART NO.	ST-0155
Anni					SCALE	REF.					
					REM.						

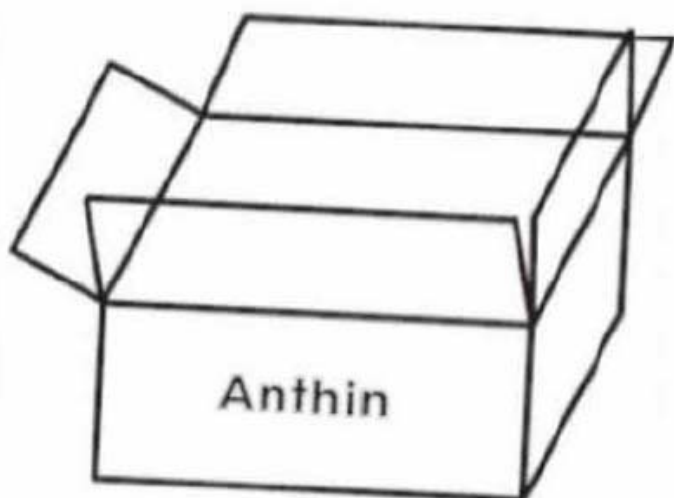


成品1PCS装入小白盒
小白盒材质 (450G)
外径尺寸 : 长*宽*高
L*W*H (83*66*55mm)
TOLERANCE : ± 1

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					
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	MATERIAL		REV.	A1	NAME	PACKING
50 < L < 100	±0.15	±0.25	±0.4	±0.6						
100 < L	±0.2	±0.4	±0.5	±0.8						
DEG.	CHKD.	APPD.		UNIT	mm			PART NO.	ST-0155	
Anni			SCALE	REF.						
				DWG NO.						