

APPROVAL SHEET

Item Name	AC/DC ADAPTER
Model Name	ANY0502W-NOS
Customer Name	ALT
Approval Issue (VER.)	Ver1.0
Approval Date	2020.02.21
Item SPEC	O/P : 5.0Vdc, 2.0A
Special Note	Air bag/ CABLE 5.5*2.1 (SL-886)

[HEAD OFFICE]	No 402, P&K Venture Tower, 13 Sanbon-ro 54beonan-gil, Gunpo-si, Gyeonggi-do TEL : 031-457-1329 , FAX : 031-457-1399
[CHINA FACTORY]	No 13, Baoli Road Wendengying Industrial Area, WendengCity,Shandong, China

Source of supply Approval							Approval
Review Departmetn	R&D	Q&D	S&D	P&D	China Factory	Approval of CEO	
Writer							

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1. PRODUCT SPECIFICATION

1.1 Scope

⊙ This product has a rating of 100-250V~ 50Hz/60Hz, PWM oscillation frequency is 65KHz.
Reliably supplies 10W of power with rated output voltage of 5V and rated output current of 2A.
This circuit consists of protection circuits such as OCP and short circuits.

※ There must be an outlet near the equipment and should have easy access to the outlet.

1.2 ELECTRICAL CHARACTERISTICS

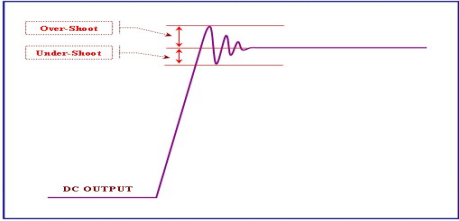
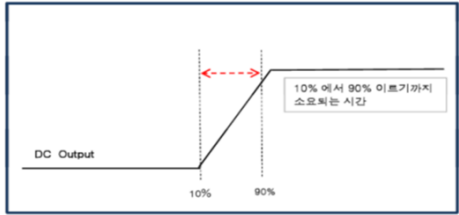
1.2.1. AC INPUT CHARACTERISTICS

AC rated input voltage	100-250V~	
AC allowable input voltage	90-264V~	
AC input current	0.5A Max (@220V~)	
AC frequency	50 - 60Hz	
AC rated frequency	44 - 66Hz	
No load input power	less than 0.3W (@220V~)	Energy Management System

1.2.2. DC OUTPUT CHARACTERISTICS

Item	CONDITION		SPEC	
Output voltage/current	AC INPUT	220V~	Voltage	5.0Vdc
			Current	2.0A
Line Regulation	AC INPUT	90-264V~(60Hz) Variable measurement	Voltage	4.75V ~ 5.25V
	LOAD	2.0A		
Load Regulation	AC INPUT	220V~(60Hz) Set up	At 0.0A	4.75V ~ 5.25V
	LOAD	0.0 A~2.0 A Variable measurement	At 2.0A	4.75V ~ 5.25V
Ripple & Noise	AC INPUT	220V~(60Hz) Set up	Ripple & Noise	50mVpp under
	LOAD	2.0A		
	This is measured over bandwidth of 20MHz and a 47uF electrolytic capacitor in parallel with a 0.1uF ceramic capacitor should be placed at the point of measurement			
OCP: Over Current Protection	AC INPUT	220V~(60Hz) Set up	Current	2.2A ~ 4.0A
	LOAD	Rising from 2A, measure when the output voltage is cut off.		
Short Circuit Protection	AC INPUT	220V~(60Hz) Set up	Voltage	4.75V ~ 5.25V Measure after releasing short circuit
	LOAD	Short for 1 minute at 2A.		
Efficiency	AC INPUT	220V~(60Hz) Set up	Efficiency	75% OVER (After 30 minutes aging)
	LOAD	100%,75%,50%, 25% The average of each measure		
		Standby power	220V~(60Hz), At 0A (It should be MAX load when aging)	≤0.3W
OVP: Over Voltage Protection)	Measurement conditions	AC INPUT : 220V~ ELE-LOAD 2.0A	The output voltage is cut off between 15V and 18V.	
	Measurement method	The output voltage is measured when the SHORT the secondary side of the PC1.		

1.2.3 RELIABILITY CONDITION

Item	CONDITION	SPEC
Hi-Pot	After the 2 lines on the input and the 2 lines on the output art short-circuited, 3kVac(cut off current 10mA) applied for 1 minute.	No insulation breakdown.
Insulation Resistance	After the 2 lines on the input and the 2 lines on the output art short-circuited, 500Vdc applied for 1 minute.	No insulation breakdown. 100MΩ over
Leakage Current	AC INPUT 220V~ Measure Primary Live and Secondary GND, Primary Neutral and Secondary GND.	0.25mA under
Inrush Current Limiter	AC INPUT 220V~, At MAX LOAD Measure the maximum current AC LINE.	30A under
ESD	ACINPUT 220V~ , At MAX LOAD AIR : ± 15kV, CONTACT : ±8kV Number of discharges : Every 10seconds Every 1 second.	No problem with output voltage. (Allow auto reset)
Drop Test	90Cm based in 1T steel bottom, free fall 10 times.	No damage to the equipment, no problem with ouput voltage.
Surge	Voltage wave form : 1.2 /50us, Current wave form : 8.0 /20us. Number of discharge : +,- each 5 times Discharge voltage : Between L1 and L2, ±4.0kV	No problem with output voltage. (Allow auto reset)
EMC	AC INPUT (220V~ 60Hz), measure the maximum load.	Class B Limit(EN55022)
Heat Characteristic	AC INPUT (220V~ 60Hz), measure the maximum load, ambient (25°C±1°C), after 3 hours aging.	Case outer surface temperature. Less than 50°C at 80% load.
Vibration	100 ~ 500Hz/1.5g After 60 minutes of vibration, it should work normally.	No problem with output voltage. (Allow auto reset)
MTBF (Mean Time Between Failure)	AC INPUT(220V~,60Hz) Test at maxium load. Ambient (25°C) After 3 hours aging, calculation after measuring part temperature. MIL-HDBK-217F Part Count	Product life expectancy 6 years 24hour operation : 55,000HR over
OVER SHOOT		AC INPUT(220V~60HZ), measure rising voltage of output waveform. 5.0Vdc+0.25V under
RISE TIME		AC INPUT(220V~60HZ), measure rise time of output waveform. 50ms under.

Item	CONDITION	SPEC
Turn on delay time		AC INPUT(220V~ 60Hz), At max load. Measure the output rise start time. 2 sec under.
Hold up time		AC INPUT(220V~ 60Hz) cut off, At max load. Measure the output hold time. 10m sec over.

1.3 ENVIRONMENTAL REQUIREMENTS

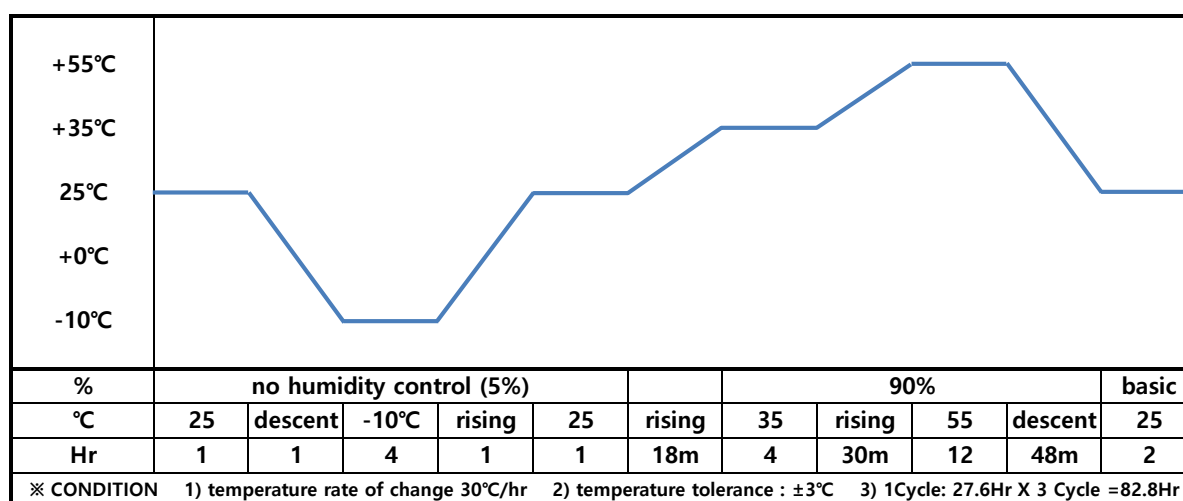
1.3.1 Cooling system

- ⊙ This product should be cooled by natural wind.

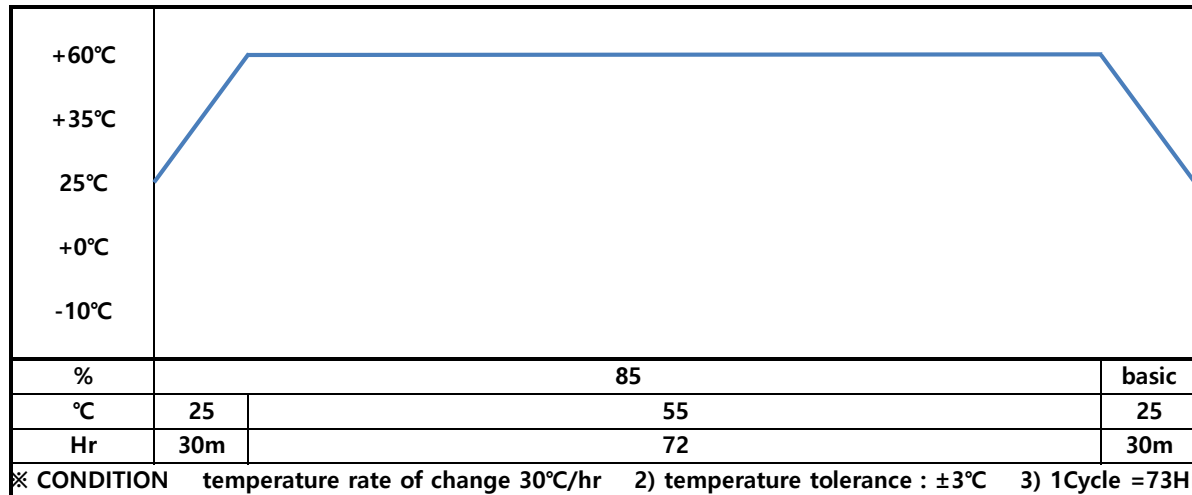
1.3.2 Operating Temperature and Humidity, Storage Temperature and Humidity

Cooling	Natural convection cooling
Operating Temperature	Ambient -5°C ~ +50°C
Storage Temperature	Ambient -5°C ~ +60°C
Operating Humidity	Humidity 20% ~ 85%
Storage Humidity	Humidity 10% ~ 90%

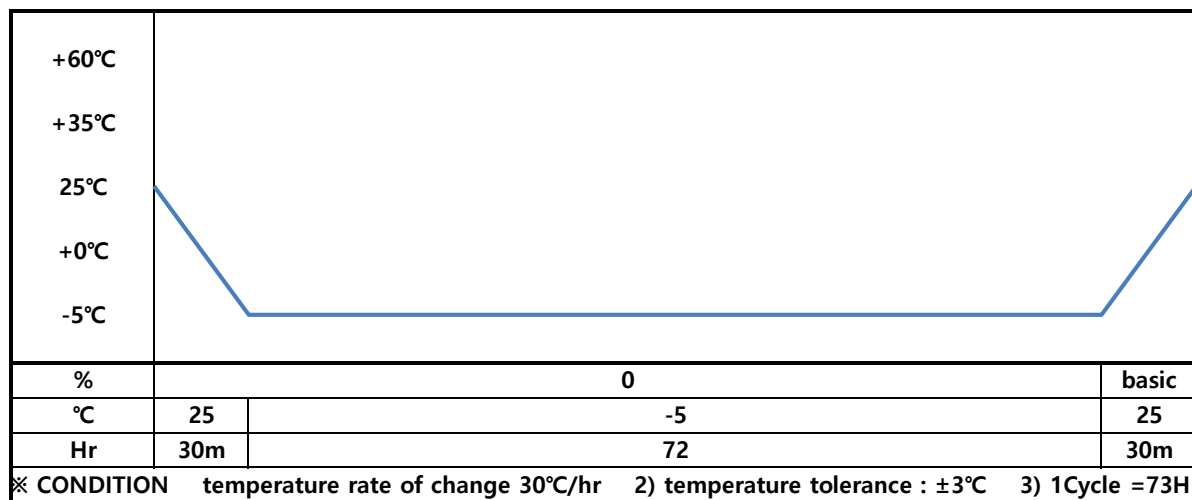
1.3.3 Temperature cycle test



1.3.4 High temperature storage test



1.3.4 Low temperature storage test



1.4 Safety Standardts

1.4.1 KC safety certificate with the Article 9(2), 9(4) or 10(2)

1.4.2 Safety standards for electrical appliances "K60950-1"

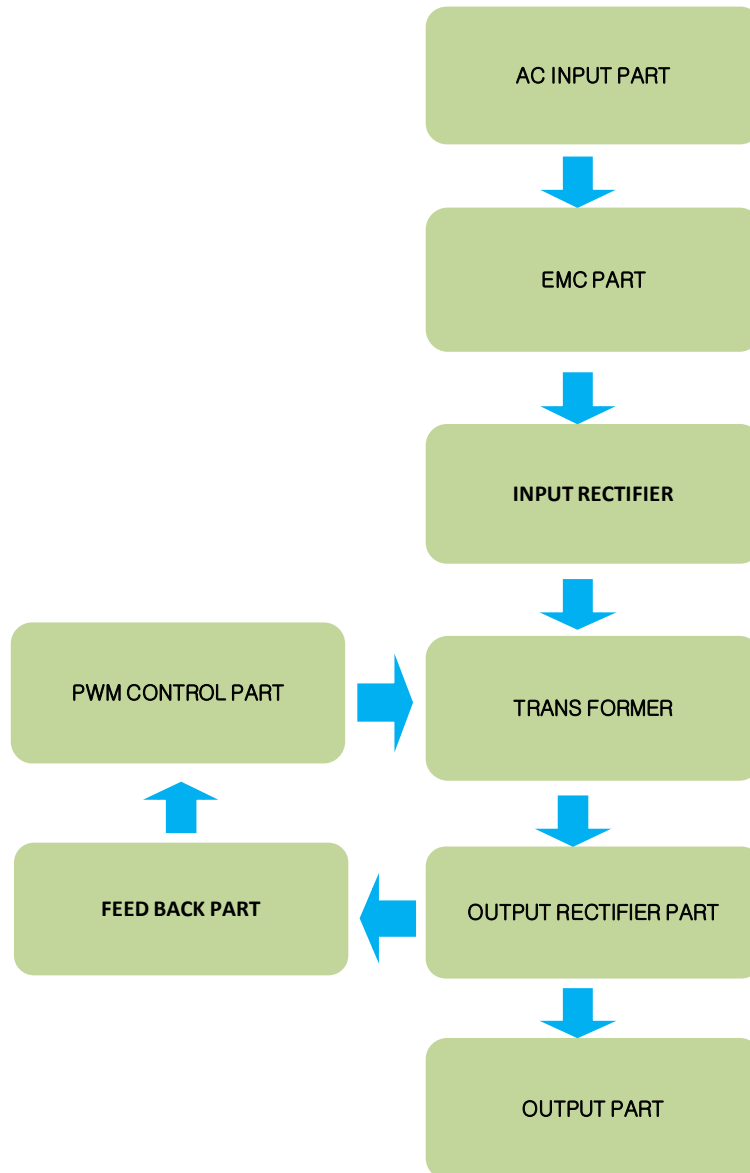
1.4.3 Electromagnetic interference prevention standard

1.4.4 Standby power (Energy Management System)

1.4.5 Efficiency equipment (Energy Management System)

1.4.6 Product liability insurance

2. BLOCK DIAGRAM



3. PART-LIST

1) ManualInsert PART

No.	LOCATION	DESCRIPTION	SPECIFICATION	Q'ty	VENDER	VENDER P/N
1	CE1,CE3	CAPACITOR-ELEC	400V 10uF 10*16.5 105°C 10000H / P-5MM	2	SAMYOUNG SAMWHA	NFR 400V 10uF BJ2G106M10016PA
2	CE2	CAPACITOR-ELEC	50V 10uF 5*11 , 105°C 6000H / P-2.5MM	1	SAMYOUNG SAMWHA	NXH 50V 10uF ML1H106M05011PA
3	CE5	POLYMER	10V 680uF 8*11.5, 105°C P-5MM	1	ENESOL	10RHVL680MD11
4	CE4	CAPACITOR-ELEC	10V 1000uF 10*12, 105°C 10000H / P-5MM	1	SAMYOUNG SAMWHA	NXH 10V 1000uF ML1A108M1012MPA
5	CE6	CAPACITOR-ELEC	10V 330uF 6.3*11, 105°C 6000H / P-2.5MM	1	SAMYOUNG SAMWHA	NXH 10V 330uF ML1A337M6L011PA
6	F1	FUSE	250VAC 3.15A / one-sided foaming	1	BETTER DAINFUSE	524 T3.15A 50CT T3.15A 250V
7	T1	TRANSFORMER	EE1614 10W	1	HLD DAERYUN DONGIN	T002-00449-00 T002-00449-00
8	L1	AXIAL LEAD TYPE INDUCTOR	R6.5X15 ϕ 0.24/91.5T,180uH $\pm$ 10%	1	B&M INDAC DONGIN	RL0511-181K RL0511-181K RL0511-181K
9	L2	AXIAL LEAD TYPE INDUCTOR	R3X15 ϕ 0.800/12.5,2.2uH	1	TP INDAC DONGIN	71451-00002-00 71451-00002-00 71451-00002-00
10	U2	PWM IC	DIP 8PIN	1	DONG GUANG	D3555
11	MOV1	VARISTOR	10 ϕ 470V / STRAIGHT TYPE P- 8MM / 3.5mm CUTTING	1	JOYIN STE WANMING	JVR10S471K87PU5 (Bulk) STE10D471K3EB0FZB2R0 WMR10D471KE3B3.5W
12	NTC1	NTC	5ohm 4A / STRAIGHT TYPE P- 5MM / 3.5mm CUTTING	1	THINKING STE WANMING	SCK054 MF1105004M4EB0FPB0 WTR10D050ME3B.5L
13	D2	PLASTIC SILICON RECTIFIER	1KV 1A DO-41	1	PING WEI FIRST SILICON WSD	1N4007G 1N4007G 1N4007G
14	D3,D4	HIGH CURRENT SCHOTTKYS BARRIER RECTIFIER	5A40V DO-201AD R-FORMING (7.5mm)	2	PING WEI FIRST SILICON WSD	SB540LR SB540L-U SB540L-U
15	JP1	JUMPER	0.6 ϕ CP/CU	1	ANY	14mm
16	JP2	JUMPER	0.6 ϕ CP/CU	1	ANY	7.5mm
17	FOR F1	heat shrinkable tube	ϕ 6 125°C 600V 0.25mm	1	ANY	25mm
18	FOR MOV1	heat shrinkable tube	ϕ 8 125°C 600V 0.25mm	1	ANY	15mm
19	FOR NTC1	heat shrinkable tube	ϕ 8 125°C 600V 0.25mm	1	ANY	15mm

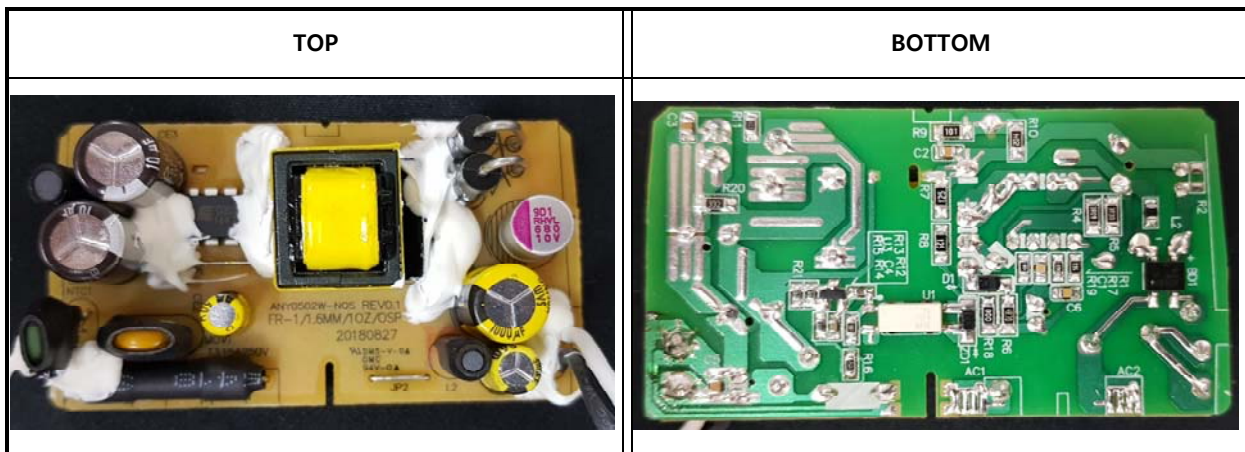
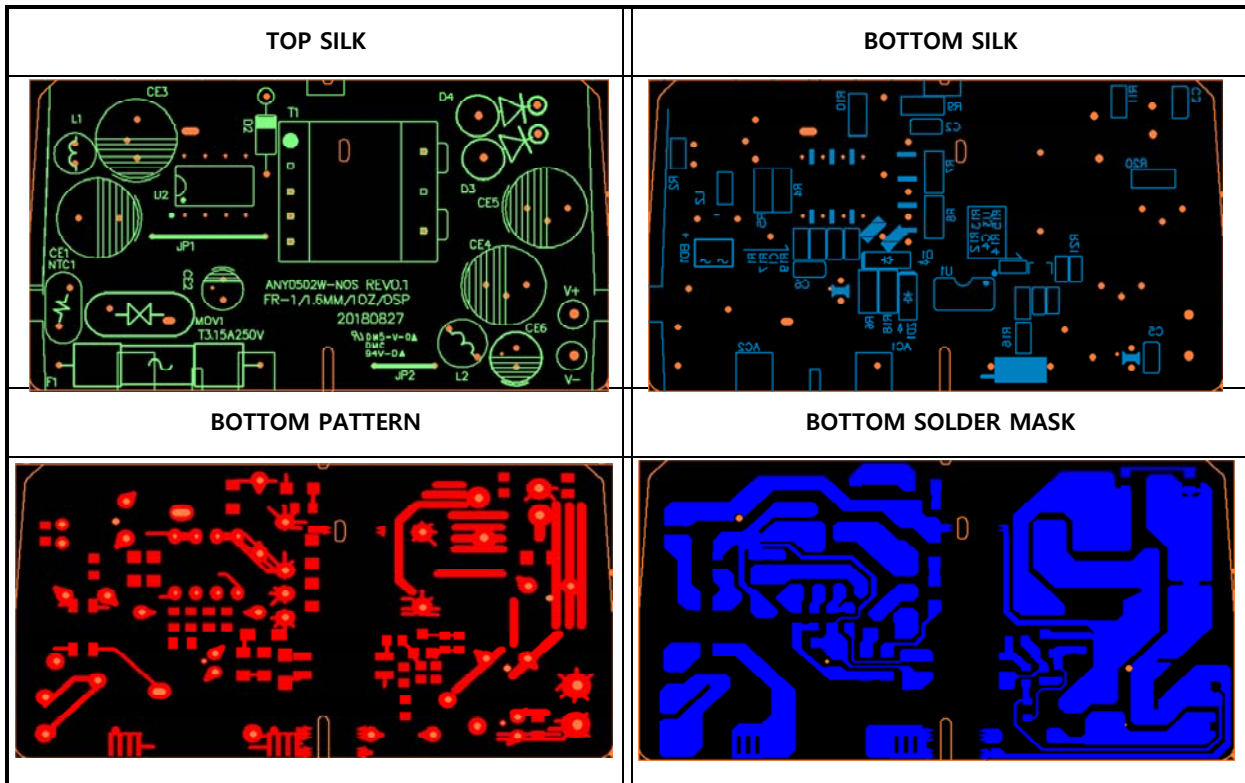
2) SMD PART

No.	LOCATION	DESCRIPTION	SPECIFICATION	Q'ty	VENDER	VENDER P/N
1	PCB	PCB	63.5X40.5mm FR-1, 1.6T, REV0.1	1	QIN JI HUAYINGKE	ANY0502W-NOS ANY0502W-NOS
2	U1	Optocoupler	4PIN 50mA 200≤CTR≤400	1	LITEON LIGHTNING	LTV-1009 TD1019
3	BD1	Bridge Diode	1000V 1A, MBF	1	JingHeng FIRST SILICON WSD	MB10F MB10F TD10S
4	U3	Programmable Precision	SMD 431,2.5V±0.4%SOT-23	1	Diodes DY DIODE FIRST SILICON	AZ431 MMTL431 FA431ZCS
5	D1	Switching Diodes	1A1000V,SOD-123FL	1	PING WEI FIRST SILICON WSD	S07M A7 A7
6	ZD1	ZENER DIODE	6.2V SOD123	1	JingHeng FIRST SILICON WSD	MM1Z6V2 BZT52C6V2 BZT52C6V2
7	R1	RESISTOR-CHIP	560Ω,0805,5%(J)	1	WALSIN ANY	WR08X561 JTL
8	R4	RESISTOR-CHIP	3.09Ω,1206,1%(F)	1	WALSIN ANY	WR12X3R09 FTL
9	R6	RESISTOR-CHIP	4.7Ω,1206,1%(F)	1	WALSIN ANY	WR12X4R70 FTL
10	R7,R8	RESISTOR-CHIP	1.2MΩ,1206,5%(J)	2	WALSIN ANY	WR12X125 JTL
11	R10	RESISTOR-CHIP	200KΩ,1206,5%(J)	1	WALSIN ANY	WR12X204 JTL
12	R9	RESISTOR-CHIP	100Ω,1206,5%(J)	1	WALSIN ANY	WR12X101 JTL
13	R11	RESISTOR-CHIP	22Ω,0805,5%(J)	1	WALSIN ANY	WR08X220 JTL
14	R12	RESISTOR-CHIP	1KΩ,0805,1%(F)	1	WALSIN ANY	WR08X1001 FTL
15	R13	RESISTOR-CHIP	3.3KΩ,0603,1%(F)	1	WALSIN ANY	WR06X3301 FTL
16	R15	RESISTOR-CHIP	10KΩ,0603,1%(F)	1	WALSIN ANY	WR06X1002 FTL
17	R14	RESISTOR-CHIP	10Ω,0603,1%(F)	1	WALSIN ANY	WR06X10R0 FTL
18	R16	RESISTOR-CHIP	10.5KΩ,0805,1%(F)	1	WALSIN ANY	WR08X1052 FTL
19	R17	RESISTOR-CHIP	220Ω,0805,1%(F)	1	WALSIN ANY	WR08X2200 FTL
20	R18	RESISTOR-CHIP	0Ω,1206,1%(F)	1	WALSIN ANY	WR12X000 JTL
21	R19	RESISTOR-CHIP	0Ω,0805,1%(F)	1	WALSIN ANY	WR08X000 JTL
22	C5,C6	CAPACITOR-MLCC	0805 50V 104K X7R	2	WALSIN ANY	0805B104K500
23	C4	CAPACITOR-MLCC	0603 50V 104K X7R	1	WALSIN ANY	0603B104K500
24	C2,C3	CAPACITOR-MLCC	0805 500V 102K X7R	2	WALSIN ANY	0805B102K501
25	C1	CAPACITOR-MLCC	0805 50V 102K X7R	1	WALSIN ANY	0805B102K500
26	L2	SMD INDUCTOR	4.7μH±20%0.8A,0805	1	Sunlord VIKING	MPH201210S4R7MT MLH05MT4R7-1

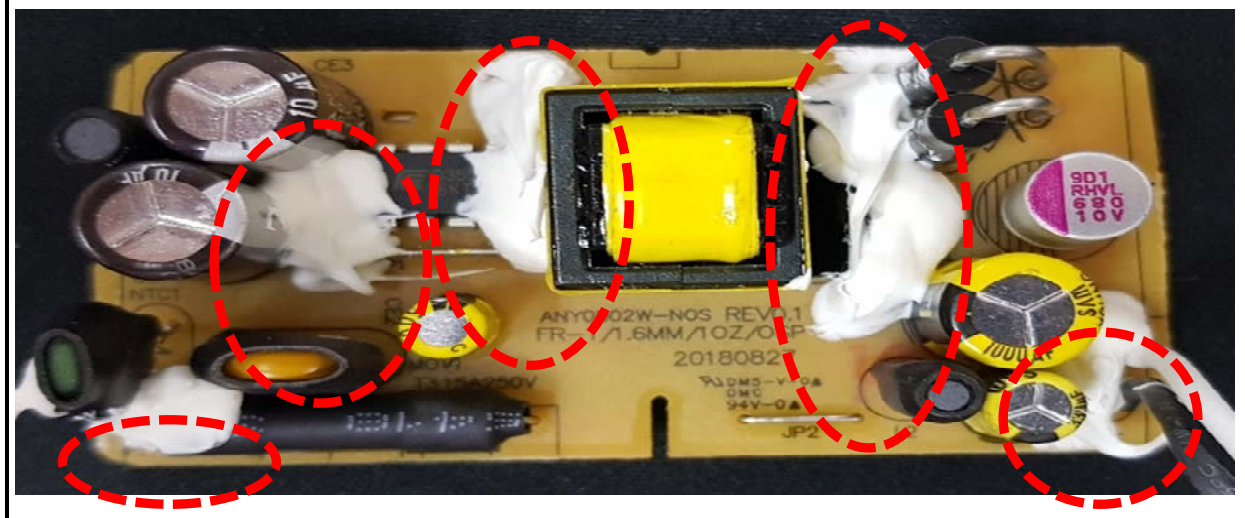
3) MECHANICAL PART

NO	DESCRIPTION & SPECIFICATION	PCB MARK NO	PART No.	Q'TY	VENDOR	VENDER P/N
1	TOP CASE		ANY0502W-NOS TOP	1	BONGJIN	ANY-158-A002
2	BOTTOM CASE		ANY05020W-NOS BOTTOM	1	BONGJIN	ANY-158-A001
3	AC PLUG PIN		ANY0502W-NOS AC PIN	2	LONGWEI	79G019-00
4	AC CONTACT		ANY0502W-NOS AC CONTACT	2	LONGWEI	79042-5110-00
5	DC-CABLE		1185 18AWG	1	SHENGLONG	SL-886
6	BUBBLE BAG		135X185	1	RUILI	ANY-900-P001
7	PARTITION		ANY 415 X 300 X 100		HUIRUN	ANY0520-U1 A/P
8	C/T BOX		ANY 430 X 310 X 335		HUIRUN	ANY 430 X 310 X 335
10	CAUTION LABEL		60 X 15	1	HANSOL	ANY-158-L002
11	MAIN LABEL		22.3 X 27.35	1	HANSOL	ANY-158-L001
12	Pb		Sn PB FREE	g	NIHON	12011005
13	Silicon		Silicon 828	g	SEWHA	SLD-9388W
14	Bond		BA720	g	BORIM	12007-00007-01

4. P.C.B DIAGRAM(Product Photos)



红色标识：点胶POINT - 使用硅胶 - WHITE COLOR



(ANY0502W-NOS) Adapter Picture



FRONT



RIGHT



LEFT



REAR



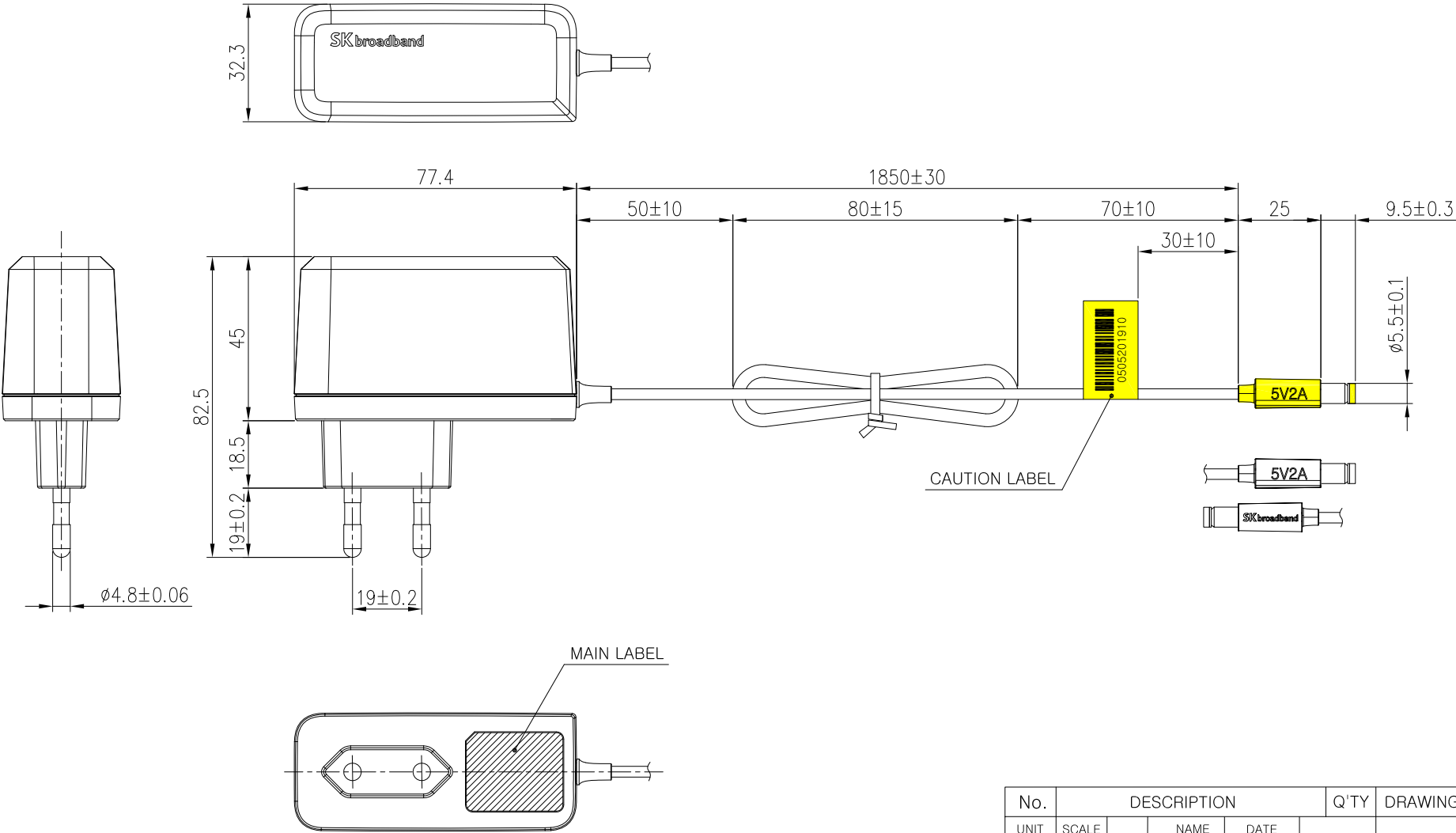
BOTTOM



UP

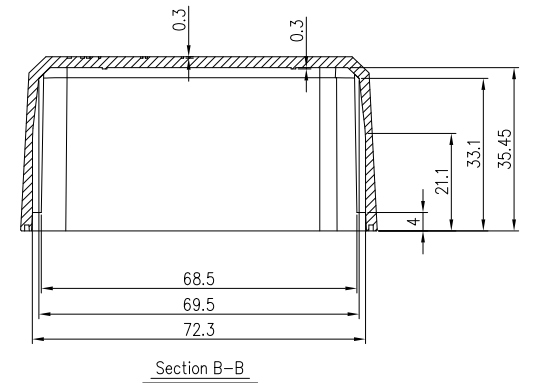
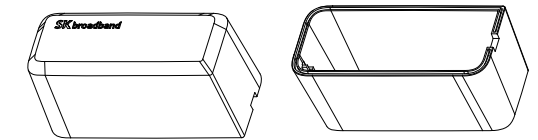
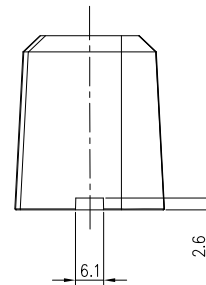
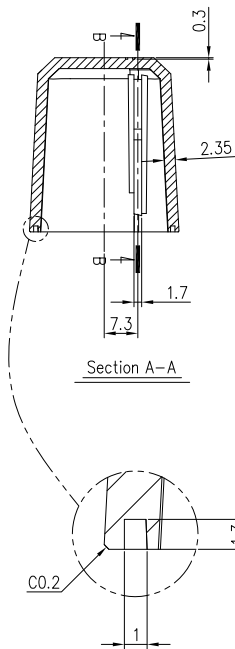
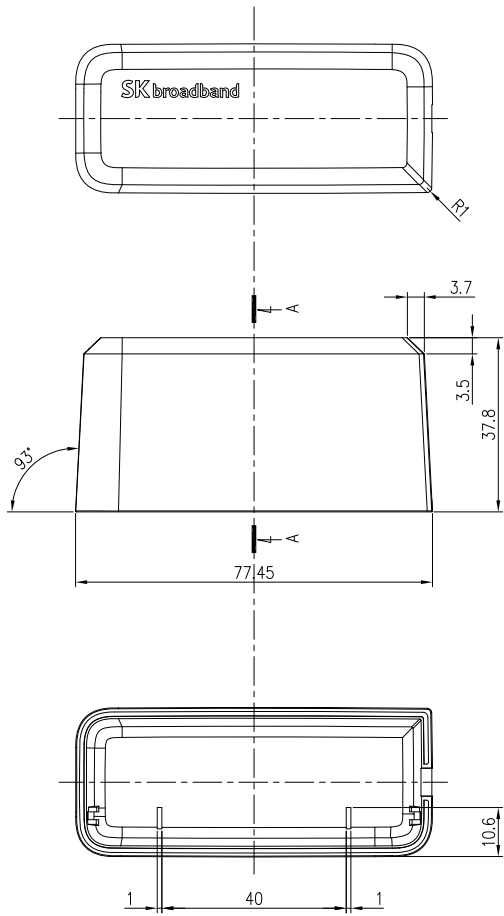
GENERAL TOLERANCE				
LIMIT	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4
~ 5	0.05	0.08	0.2	0.3
6 ~ 18	0.08	0.1	0.3	0.4
19 ~ 50	0.1	0.15	0.4	0.6
51 ~ 180	0.2	0.2	0.8	1.2
181 ~ 500	0.3	0.5	1.2	2.0
501 ~ 1000	0.6	0.8	2.5	4.0

REVISION				
ISSUE	CONTENTS	ENGINEER	APPROVER	DATE
1.0				



No.	DESCRIPTION				Q'TY	DRAWING NO.	REMARK
UNIT	SCALE		NAME	DATE	MODEL	ANY0502W-NOS	
mm	N/S	APP	SW JUNG	2019.10.22			
TOLERANCE		CHK			REL DWG		
		DWG	YK LEE	2019.10.22			
FILE NAME			SIZE		DWG NAME	MECHANICAL SPECIFICATION	
ANY Electronics Co., Ltd.			A3		DWG NO	ANY-158-M001	

GENERAL TOLERANCE				
LIMIT	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4
~ 5	0.05	0.08	0.2	0.3
6 ~ 18	0.08	0.1	0.3	0.4
19 ~ 50	0.1	0.15	0.4	0.6
51 ~ 180	0.2	0.2	0.8	1.2
181 ~ 500	0.3	0.5	1.2	2.0
501 ~ 1000	0.6	0.8	2.5	4.0



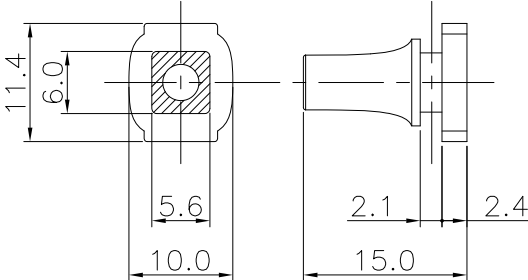
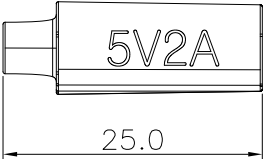
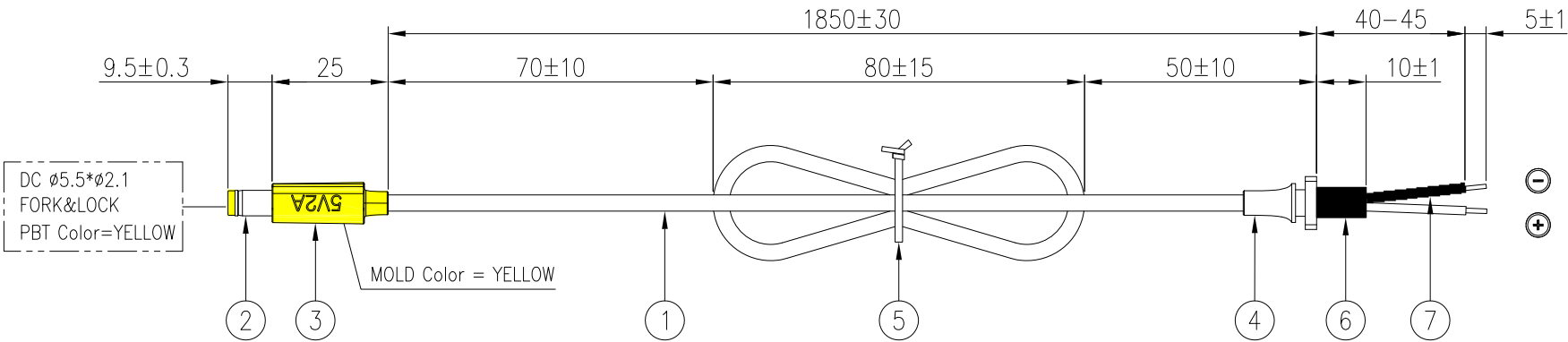
NOTES.

1. Material : UL94V-0 PC, Block
2. There shouldn't be burr, cracks and dents.
3. Non-Dimensions refer to the 3D Modeling data.
4. * Mark mean CTQ(Critical To Quality point) point.
5. Unsigned Radius : R0.3
6. Please contact to the designer for further inquiries.

No.	DESCRIPTION				Q'TY	DRAWING NO.	REMARK
UNIT	SCALE		NAME	DATE	MODEL	ANY0502W-NOS	
mm	N/S	APP	SW JUNG	2019.10.22			
TOLERANCE		CHK			REL DWG		
		DWG	YK LEE	2019.10.22			
FILE NAME				SIZE	DWG NAME	CASE COVER	
ANY Electronics Co., Ltd.				A3	DWG NO	ANY-158-A002	

GENERAL TOLERANCE				
LIMIT	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4
~ 5	0.05	0.08	0.2	0.3
6 ~ 18	0.08	0.1	0.3	0.4
19 ~ 50	0.1	0.15	0.4	0.6
51 ~ 180	0.2	0.2	0.8	1.2
181 ~ 500	0.3	0.5	1.2	2.0
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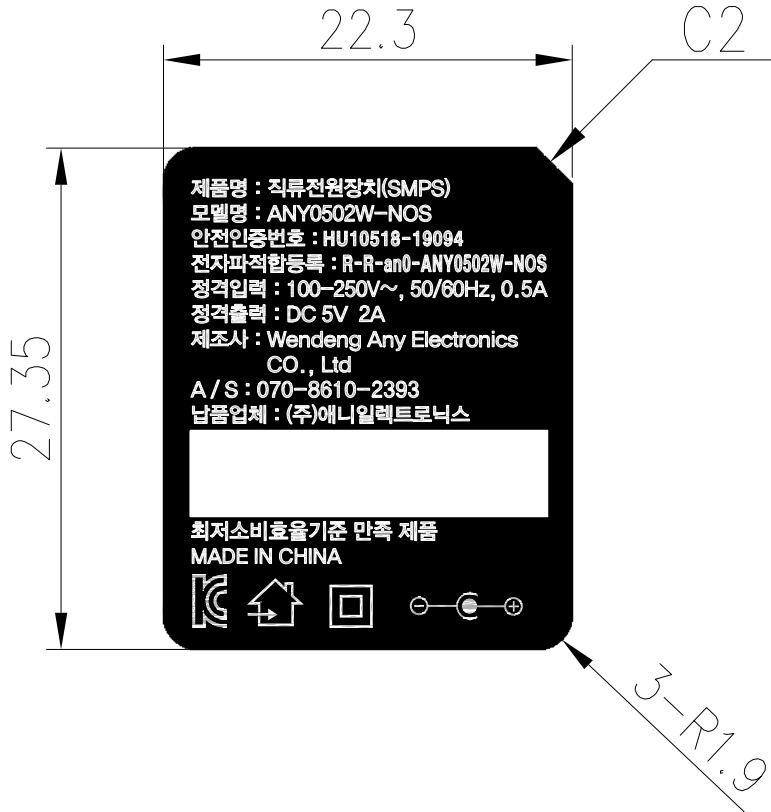


7	HEAT TUBE	$\phi 2.0$, BLACK	35	mm	
6	HEAT TUBE	$\phi 3.5$, BLACK	11	mm	
5	TIE WIRE	PE, BLACK	100	mm	
4	STOPPER MOLD	PVC 55P, BLACK	1	EA	SL-SR-136
3	DC PLUG MOLD	PVC 55P, BLACK	1	EA	SL-NM-065 / SL-NM-098
2	DC PLUG	DC $\phi 5.5 \times \phi 2.1$ FORK&LOCK, PBT COLOR=YELLOW	1	EA	
1	CABLE	UL2468 22AWG, BC, BLACK, OD=1.7*3.4	1.58	M	
NO	PART NAME	DESCRIPTION (PART No. / MATERIAL)	Q'TY	UNIT	REMARK

No.	DESCRIPTION				Q'TY	DRAWING NO.	REMARK
UNIT	SCALE		NAME	DATE	MODEL	ANY0502W-NOS	
mm	N/S	APP	SW JUNG	2019.04.24			
TOLERANCE		CHK			REL DWG	SL-886	
		DWG	YK LEE	2019.04.24			
FILE NAME					SIZE	DWG NAME	DC OUTPUT
ANY Electronics Co., Ltd.				A ₃	DWG NO	ANY-158-C001	

GENERAL TOLERANCE				
LIMIT	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4
~ 5	0.05	0.08	0.2	0.3
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REVISION				
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1.0				



<BARCODE PRINT SPECIFICATION>

0505201910

Barcode System : Code 128
Barcode Height : More than 3mm
Barcode Contents : Include the Below Text

0505201910

- MONTH : 01~12
- YEAR : 19(2019)
- OUTPUT SPEC : 0520(5V/2A)
- VENDOR CODE : 05

Notes.

1. Material : NY Glassine, Matte Barcode Laminating
2. Background Color : Black
3. Text & Logo Color : White

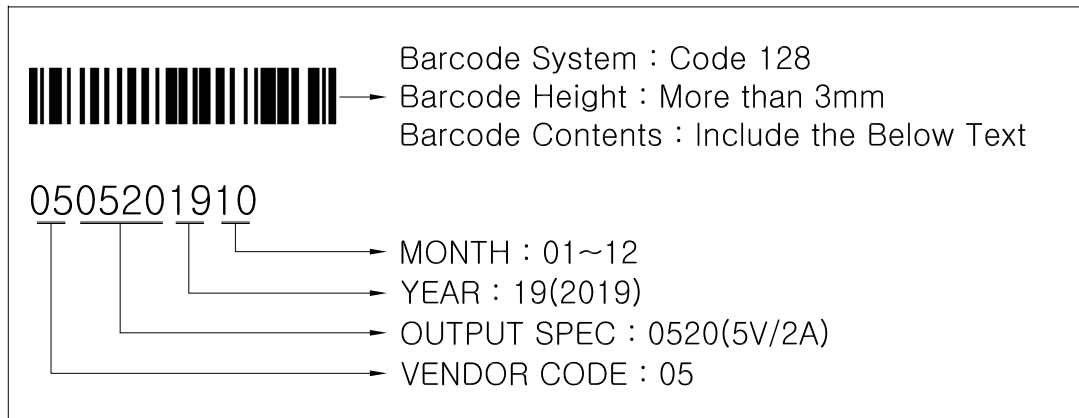
No.	DESCRIPTION				Q'TY	DRAWING NO.	REMARK
UNIT	SCALE		NAME	DATE	MODEL	ANY0502W-NOS	
mm	N/S	APP	SW JUNG	2019.10.22			
TOLERANCE		CHK			REL DWG		
		DWG	YK LEE	2019.10.22			
FILE NAME			SIZE		DWG NAME	MAIN LABEL	
ANY Electronics Co., Ltd.			A 4		DWG NO	ANY-158-L001	

GENERAL TOLERANCE				
LIMIT	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4
~ 5	0.05	0.08	0.2	0.3
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19 ~ 50	0.1	0.15	0.4	0.6
51 ~ 180	0.2	0.3	0.8	1.2
181 ~ 500	0.3	0.5	1.2	2.0
501 ~ 1000	0.6	0.8	2.5	4.0

REVISION				
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1.0				



<BARCODE PRINT SPECIFICATION>



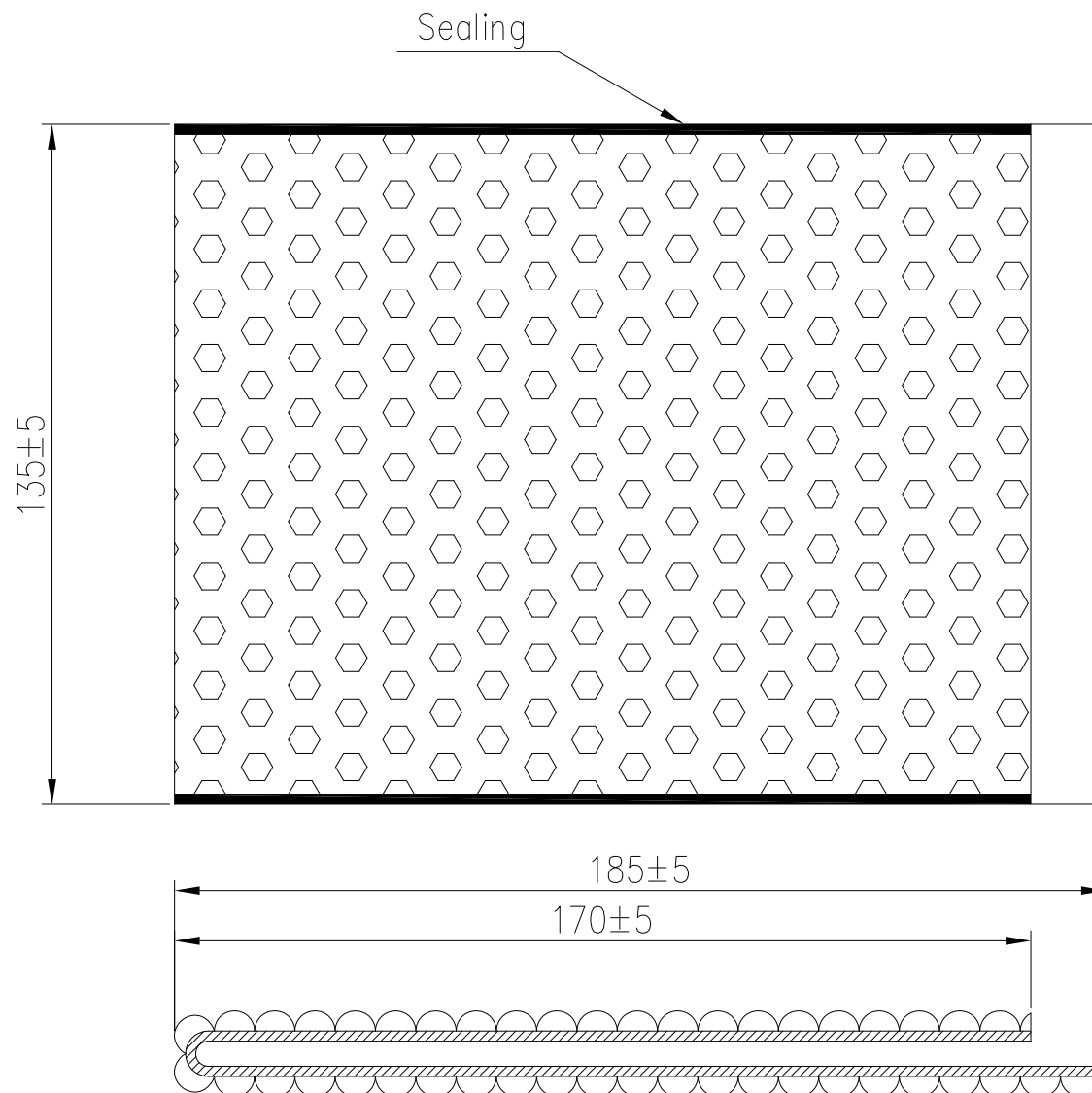
Notes.

1. Material : YUPO Paper, Glossy Barcode Laminating
2. Background Color : Yellow
3. Text & Logo Color : Black

No.	DESCRIPTION				Q'TY	DRAWING NO.	REMARK
UNIT	SCALE		NAME	DATE	MODEL	ANY0502W-NOS	
mm	N/S	APP	SW JUNG	2020.01.02			
TOLERANCE	CHK				REL DWG		
	DWG	YK LEE		2020.01.02			
FILE NAME		SIZE			DWG NAME	CAUTION LABEL	
ANY Electronics Co., Ltd.		A4			DWG NO	ANY-158-L002	

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1.0				



← Open

NOTES.

1. MATERIAL : PE Bubble Sheet, Clear

GENERAL TOLERANCE				
LIMIT	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4
~ 5	0.05	0.08	0.2	0.3
6 ~ 18	0.08	0.1	0.3	0.4
19 ~ 50	0.1	0.15	0.4	0.6
51 ~ 180	0.2	0.2	0.8	1.2
181 ~ 500	0.3	0.5	1.2	2.0
501 ~ 1000	0.6	0.8	2.5	4.0

NO.	DESCRIPTION		Q'TY	DRAWING NO.	REMARK
UNIT	SCALE	NAME	DATE	MODEL	
mm	N/S	APP	2019.12.17		
TOLERANCE		CHK		REL DWG	
±0.2		DWG	YK LEE		
FILE NAME			SIZE	DWG NAME	Packing Vinyl
ANY Electronics Co., Ltd.			A3	DWG NO	ANY-900-P001

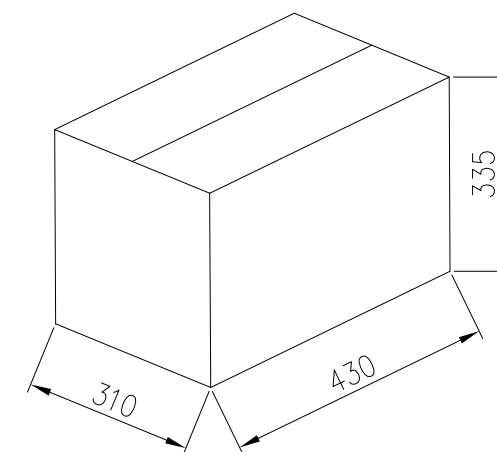
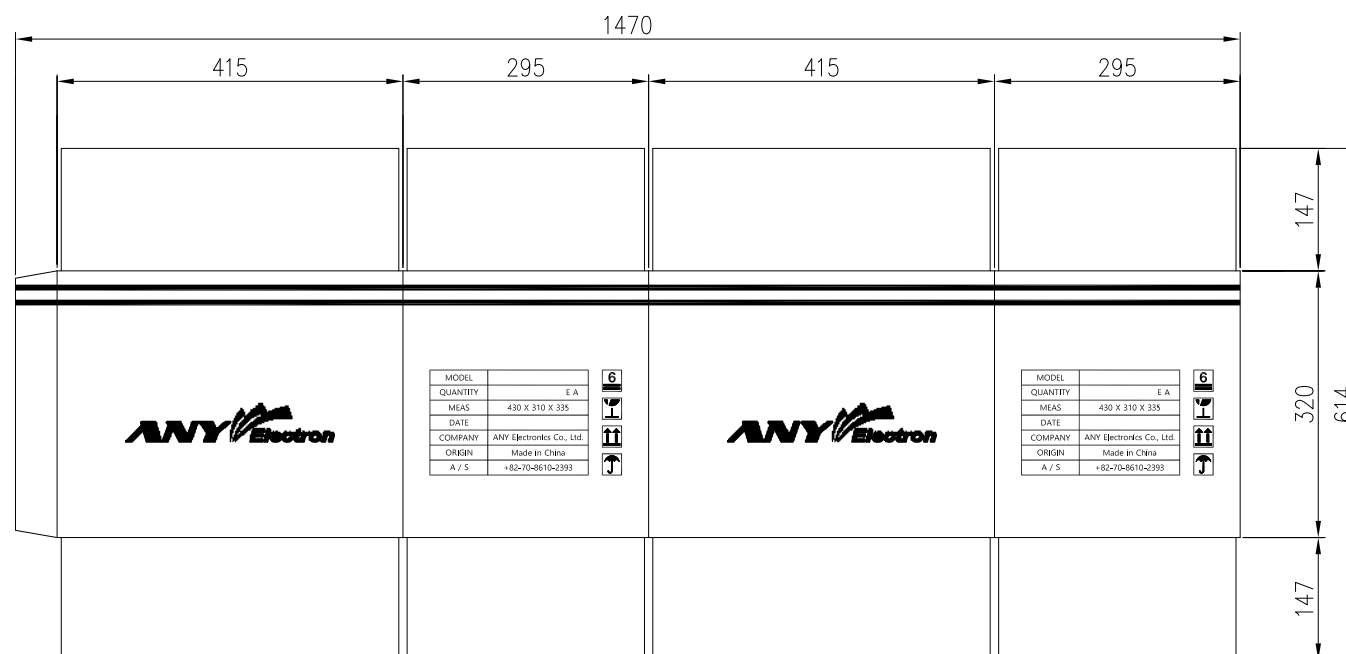
REVISION

ISSUE	CONTENTS	ENGINEER	APPROVER	DATE

PRINT SPEC.



MODEL	
QUANTITY	E A
MEAS	430 X 310 X 335
DATE	
COMPANY	ANY Electronics Co., Ltd.
ORIGIN	Made in China
A / S	+82-70-8610-2393



– PACKING QUANTITY : 90ea Max.

NOTES.

1. MATERIAL ; DW(AB flute)
2. PRINT COLOR : BLACK

NO.	DESCRIPTION		Q'TY	DRAWING NO.	REMARK
UNIT	SCALE	NAME	DATE	MODEL	
mm	N/S	APP			
TOLERANCE	CHK			REL DWG	
	DWG				
FILE NAME		SIZE	DWG NAME	CARTON BOX	
ANY Electronics Co., Ltd.	A3		DWG NO	430*310*335	

6. TEST PROCEDURE

6.1 General regulations on testing

6.1.1 Summary

Before starting the test or measurement, the product should be stored at room Temperature for 1~2 hours.
When measuring, record the ambient temperature and relative humidity.
During the measurement, the product shall not be subject to air gaps, heat radiation or any other effects that may cause measurement errors.

6.1.2 Test environmental conditions

Unless otherwise specified, perform in stand by it.
If it is difficult to satisfy these conditions, record environmental conditions on test results.

6.1.3 Recovery environmental condition

Unless otherwise specified, store for 1 ~ 2 hours and recover.

6.1.4 Electrical characteristic test

The characteristic test, operate at maximum rated load for at least 30 minutes.

Reliability test report



신뢰성 규격 및
시험

7. SPECIFICATION CERTIFICATE

1) KC safety certificate

전기용품 및 생활용품 안전관리법 시행규칙 [별지 제5호서식]

접수번호 : 20190314-0128



안전인증서 Safety Certificate

안전인증번호: HU10518-19094A
(Certificate No.)
제조업자/수입업자명: Wendeng Any Electronics co.,Ltd
(Manufacturer/importer)
주 소: No 13. Baoli Road, Wendengying Industrial Area, Wendeng City,
(Address) Shangdong, China
제 품 명: 직류전원장치
(Product)
기본모델명: ANY0502W-NOS
(Basic Model)
파생모델명 (Series Model):

정격/안전기준상의 모델구분: 100-250 V~, 50/60 Hz, 0.5 A (O/P: 5 Vdc, 2 A)
(Rating)
시험 기준: K 60950-1(2011-12)
(Standard)

본 인증서는 제조국명: 중국
제조업자명: Wendeng Any Electronics co.,Ltd
제조공장의 주소: No 13. Baoli Road, Wendengying Industrial Area, Wendeng City,
Shangdong, China
의 제품에만 해당함

「전기용품 및 생활용품 안전관리법 시행규칙」 제9조제2항, 제4항, 제10조제2항 또는 제15조제2항에 따라 안전인증서를 발급합니다.
We issue this Safety Certificate for the above appliances in accordance with the Article 9(2), 9(4), 10(2)
or 15(2) of the Enforcement Rule of the Electrical Appliances and Consumer Products Safety Control Act.

2019 년 04 월 24 일
(Year) (Month) (Day)



한국기계전기전자시험연구원
Korea Testing Certification



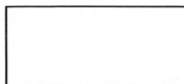
※ 이 인증서는 「전기용품 및 생활용품 안전관리법」에 따른 제품의 안전성 확인에 한정된 것이며, 그 밖의 다른 법률이 적용되는
제품의 경우에는 해당 법률에 따라 추가로 인증·허가 등을 받아야 합니다.

첨부서류	1. 전기용품의 안전관리부품 및 재질목록 (List of Critical Components)	
	2. 기본모델 · 파생모델의 내용 (Descriptions of the basic and series model)	
	3. 안전인증의 변경 현황 (Revisions Status)	

2) Electromagnetic compatibility certification

6EFF-F2E9-585B-632C

방송통신기자재등의 적합등록 필증 Registration of Broadcasting and Communication Equipments	
상호 또는 성명 Trade Name or Registrant	Wendeng Any Electronics Co.,Ltd.
기자재명칭(제품명칭) Equipment Name	직류전원장치
기본모델명 Basic Model Number	ANY0502W-NOS
파생모델명 Series Model Number	
등록번호 Registration No.	R-R-an0-ANY0502W-NOS
제조사/제조(조립)국가 Manufacturer/Country of Origin	Wendeng Any Electronics Co.,Ltd. / 중국
등록연월일 Date of Registration	2019-04-18
기타 Others	
위 기자재는 「전파법」 제58조의2 제3항에 따라 등록되었음을 증명합니다. It is verified that foregoing equipment has been registered under the Clause 3, Article 58-2 of Radio Waves Act. 2019년(Year) 04월(Month) 18일(Day) 국립전파연구원장 Director General of National Radio Research Agency ※ 적합등록 방송통신기자재는 반드시 "적합성평가표시" 를 부착하여 유통하여야 합니다. 위반시 과태료 처분 및 등록이 취소될 수 있습니다.	



3) Energy efficiency confirmation

효율관리기자재 신고 확인서

접 수 번 호	: 125190482
품 목 명	: 어댑터
업 체 명	: (주)에니일렉트로닉스
업 체 대 표 번 호	: 138-81-27263
모 델 명	: ANY0502W-NOS
효 율 등 급	: 최저소비효율기준만족
명판표시출력전력(W)	: 10
동작효율(%)	: 78.2
무부하모드 소비전력(W)	: 0.3
동작효율 MEPS(%)	: 69.72

『에너지이용합리화법』 및 "효율관리기자재 운용규정"
(산업통상자원부 고시)에 따라 상기 효율관리기자재가 신고되었음을
확인합니다.

효율관리기자재 신고확인서에 기재된 제품사양 및 효율 등의 내용은 신고업체의
책임 하에 기재된 사항이오니, 신고내용에 대한 문의는 해당업체에 문의하시기
바랍니다.

2019년05월17일

한국에너지공단 이 사



우)16842 경기도 용인시 수지구 포은대로 388 (풍덕천2동 1157번지)

8. TEST REPORT

A N Y	Person in charge	Approval	TEST REPORT				C U S T O M E R	Person in charge	Approval				
SUPPLIER	Any Electronics		ITEM	ADAPTOR		LOT No		-					
MODEL NAME	ANY0502W-NOS		Part specification			LOT Size							
CODE	-		CHANGES										
DATA	SUPPLIER		INSPECTOR			JUDGMENT	SUPPLIER						
	CUSTOMER						CUSTOMER						
Inspection items	Inspection method		TEST	Product quantity		Special note							
	SUPPLIER	CUSTOMER	CONDITION	SUPPLIER	CUSTOMER	CUSTOMER							
Visual inspection	SPL		G-II	5									
Functional inspection	SPL		G-II	5									
■ The measurement data is checked by the number of samples. If the number of products is 5 or more, only 5 will be recorded.													
Division	Inspection items		Inspection standard			1	2	3	4	5		Average	judgment
Outside	PCB		Silk print, Copper, PCB SIZE no problem		SUPPLIER								
					CUSTOMER								
	AC/DC CABLE		The total length and DC-JACK should match the drawing.		SUPPLIER								
					CUSTOMER								
	CASE		There should be no serious SCRATCH and STAMPING.		SUPPLIER								
					CUSTOMER								
	LABEL		Same as approved original printing specification.		SUPPLIER								
					CUSTOMER								
Functional inspection	Line Regulation		90V 2.0A	4.75V - 5.25V (Rated output voltage of 5%)	SUPPLIER								
					CUSTOMER								
			110V 2.0A		SUPPLIER								
					CUSTOMER								
	Load Regulation		264V 2.0A		SUPPLIER								
					CUSTOMER								
			220V 0.0A		SUPPLIER								
					CUSTOMER								
	Hi-Pot/ Insulation Resistance		220V 1.0A	SUPPLIER									
				CUSTOMER									
			220V 2.0A	SUPPLIER									
				CUSTOMER									
	Ripple		AC INPUT 220V LOAD 2.0A	50mVp-p under	SUPPLIER								
					CUSTOMER								
OCP		AC INPUT 220V	2.2A~4.0A	SUPPLIER									
				CUSTOMER									
Efficiency		Average efficiency over 75% (measure after 30 minutes aging)		SUPPLIER									
				CUSTOMER									
Drop TEST		90Cm based in 1T steel bottom, free fall 10 times. No damage to the equipment, no problem with output voltage.		SUPPLIER									
				CUSTOMER									
Packing	Packing		No problem		SUPPLIER								
					CUSTOMER								