

APPROVAL SHEET

CUSTOMER : ALT Co., Ltd. 貴中.
MODEL : TYPE2542 (Adapter).
ITEM : Adapter (5V/2A) .
PART No. : .
DATE : 2022. 12. 15 .

Approval

※ All production units will be built according to this specification, the component specifications remain as same, its brand can be changed.

Designed By	Checked By	Approved By
		

INDEX

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1. Revision History

No.	Revision Date	Revision History	Revision	Page															
1	2019.02.26	First release	1.0A	-															
2	2019.05.10	To add PL, CKD	1.1A	8,9,10															
3	2019.07.03	Packing drawing change	1.2A	18															
4	2019.07.05	Delete the Package Drawing Page 18	1.3A	-															
5	2019.07.31	Add General tolerance table	1.4A	14~18															
6	2019.09.03	Changing cable length dimensions and drawings	1.5A	13															
7	2020.05.15	Change of component values to improve output voltage characteristics and secure margins for electromagnetic characteristics. <table><tr><td>ITEM</td><td>AS IS</td><td>TO BE</td></tr><tr><td>R16</td><td>4.87kΩ</td><td>11kΩ</td></tr><tr><td>R18</td><td>5.25kΩ</td><td>12kΩ</td></tr><tr><td>R12</td><td>NC</td><td>20pF</td></tr><tr><td>C5</td><td>1.0nF</td><td>2.2nF±1.2nF</td></tr></table>	ITEM	AS IS	TO BE	R16	4.87kΩ	11kΩ	R18	5.25kΩ	12kΩ	R12	NC	20pF	C5	1.0nF	2.2nF±1.2nF	1.6A	9,10
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C5	1.0nF	2.2nF±1.2nF																	
Secondary vendor of electrolytic and Polymer capacitors added. <table><tr><td>ITEM</td><td>1'st Vender</td><td>2'nd Vender</td></tr><tr><td>Elec. Cap</td><td>Samyoung</td><td>Samhwa</td></tr><tr><td>Poly. Cap</td><td>Soosan</td><td>Shengyang</td></tr></table>	ITEM	1'st Vender	2'nd Vender	Elec. Cap	Samyoung	Samhwa	Poly. Cap	Soosan	Shengyang	10									
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Elec. Cap	Samyoung	Samhwa																	
Poly. Cap	Soosan	Shengyang																	
Changing nameplate and carton box label due to additional manufacturer. <table><tr><td>No.</td><td>AS IS</td><td>TO BE</td></tr><tr><td>1</td><td>Fastbon(CN)</td><td>Fastbon(CN)</td></tr><tr><td>2</td><td></td><td>Gangheng(CN)</td></tr><tr><td>3</td><td>-</td><td>HAEM VINA(VN)</td></tr></table> - Application date: May 2020~	No.	AS IS	TO BE	1	Fastbon(CN)	Fastbon(CN)	2		Gangheng(CN)	3	-	HAEM VINA(VN)	17,19,20						
No.	AS IS	TO BE																	
1	Fastbon(CN)	Fastbon(CN)																	
2		Gangheng(CN)																	
3	-	HAEM VINA(VN)																	

1. Revision History

No.	Revision Date	Revision History	Revision	Page													
8	2021.05.10	MTBF time change(55,000→70,000)	1.7A	7													
		Change of Electrolyte Capacitor and Polymer Capacitor Manufacturer		10													
		<table><tr><td>ITEM</td><td>1'st Vender</td><td>2'nd Vender</td></tr><tr><td rowspan="2">Elec. Cap</td><td>Samyoung</td><td>ZHONGYUAN</td></tr><tr><td>Samhwa</td><td>CAPXON</td></tr><tr><td rowspan="2">Poly. Cap</td><td>Soosan</td><td>Shengyang</td></tr><tr><td>Shengyang</td><td>CAPXON</td></tr></table>			ITEM	1'st Vender	2'nd Vender	Elec. Cap	Samyoung	ZHONGYUAN	Samhwa	CAPXON	Poly. Cap	Soosan	Shengyang	Shengyang	CAPXON
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Poly. Cap	Soosan	Shengyang															
	Shengyang	CAPXON															
DC cable length change	14																
<table><tr><td>ITEM</td><td>AS IS</td><td>TO BE</td></tr><tr><td>5V2A</td><td>1805+25(mm)</td><td>1505+25(mm)</td></tr></table>		ITEM	AS IS	TO BE	5V2A	1805+25(mm)	1505+25(mm)										
ITEM		AS IS	TO BE														
5V2A	1805+25(mm)	1505+25(mm)															
Change the model name/KC safety certification number/electromagnetic compatibility number.	17																
<table><tr><td>ITEM</td><td>AS IS</td><td>TO BE</td></tr><tr><td>5V2A</td><td>TYPE2541</td><td>TYPE2542</td></tr><tr><td>KC</td><td>HH10319-20001</td><td>HH10319-20004</td></tr><tr><td>EMC</td><td>R-R-Edt-TYPE2541</td><td>R-R-Edt-TYPE2542</td></tr></table>		ITEM	AS IS	TO BE	5V2A	TYPE2541	TYPE2542	KC	HH10319-20001	HH10319-20004	EMC	R-R-Edt-TYPE2541	R-R-Edt-TYPE2542				
ITEM		AS IS	TO BE														
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KC	HH10319-20001	HH10319-20004															
EMC	R-R-Edt-TYPE2541	R-R-Edt-TYPE2542															
Change the Name Plate/Carton Box Label	19, 20																
9	2022.07.11	▶ Value Engineering 1) LF1 not used. 2) Change the capacitance of 2nd side capacitor. (change 470uF to 330uF) ▶ EMC improvement :Add C1(0.1uF)	1.8A	8, 9, 10													
		PCB pattern change		11, 12, 13													
		Add production factory (Qinli Electronic)		17, 19, 20													
		10		2022.12.23	PCB pattern change	11, 12, 13											
Add EMC Test Result	21, 22, 23																

2. Electrical performance

2.1 Input Characteristics :

2.1.1	Rated input voltage	100-250 Vac
2.1.2	Operating range	90-265 Vac
2.1.3	Rated input frequency	50/60 Hz
2.1.4	Rated input current	Max 0.5A (at AC 220V/60Hz)
2.1.5	Power consumption (No load)	Max 0.5W (at AC 220V/60Hz)
2.1.6	Primary overcurrent protection	Ceramic fuse, Time-lag type, 5.0A max
2.1.7	Surge	±4kV (60s period, 10 times)
2.1.8	Inrush Current	Max 30A (at AC 220V/60Hz)

2.2 Output Characteristics :

2.2.1	Nominal DC output voltage	5 V
2.2.2	Rating load current	2.0 A
2.2.3	Rating output power	10 W
2.2.4	Line regulation (at 90~265V/60Hz)	Based on the output voltage at the rated input voltage (220V@60Hz) When the AC input voltage is varied from 90 to 265V, the output voltage is within ±3%
2.2.5	Load regulation (at 220V/60Hz)	When the rated input voltage (220V@60Hz) is applied, the output voltage variation range according to the load variation is within ±3% based on the output voltage at 50% of the maximum rated load.
2.2.6	No load voltage range	4.75-5.25 V
2.2.7	Rating Load	4.85-5.15 V
2.2.8	Ripple and noise	within Max. 50 mV (p-p) at AC 220V 10W Connect 47uF/50V Electrolytic Capacitor and 0.1uF Ceramic to both ends of DC output and measure by setting the oscilloscope 20MHz bandwidth.
2.2.9	Average efficiency	Accord with energy level V. Average efficiency 75% minimum
2.2.10	Shell surface temperature	At 25°C ambient, 80%. Load, 50°C max.
2.2.11	Over current protection	At rated AC input, output current in the range of 2.4-3.5 A, the power supply will protect

2.3 Dielectric Withstand Voltage (HI-POT) :

This Adapter shall be applied 3,000Vac for 60s between AC input terminal to DC output terminal and enclosure. The cutoff current is specified as 10 mA

2.4 Insulation Resistance :

DC 500V, 100 MΩ min between input to output and enclosure.

2.5 Leakage Current :

Line<->DGND & Neutral ↔ DGND, 0.25mA max.

2.6 Overload Test :

In an ambient temperature of 25°C applies a power source of rated input with the output load adjusted to 10% of rated output and rated continuously for 4 Hours after turning off for 60 minutes in normal temperature.

2.7 Humidity Test :

Temperature 40±2°C, 90~95% RH for 4 Hours after taken out from oven.

2.8 Dampproofing Test :

200mm distance, 10 sec, ±60° spray

3. Mechanical Characteristics

3.1 Strain Relief Test :

Plug and cord, at their normal position applied a weight OF 18 lbs. to input plug, 10 lbs. to output cord, for 60 seconds each, there shall be no broken of lead or other damage result.

3.2 Drop Test :

Product shall be dropped from a height of 90cm, onto 3mm thickness tile surface 10 times from 3 different surface.

4. Environmental :

4.1 Operating Temperature and Humidity Range :

Operate over the temperature range of -5°C to 50°C , 20% to 85% relative humidity no condensation.

4.2 Storage Temperature and Humidity Range :

The operation specified herein will not be adversely affected if stored or transported within the temperature limits of -5°C to +60°C with relative humidity up to 90% no condensation.

5. Surface Structure :

5.1 Appearance : Rift, dirty etc. are not permitted.

5.2 Outline : Dimensions and express as drawing

5.3 Net Weight : 105g Max.

6. Safety & EMC :

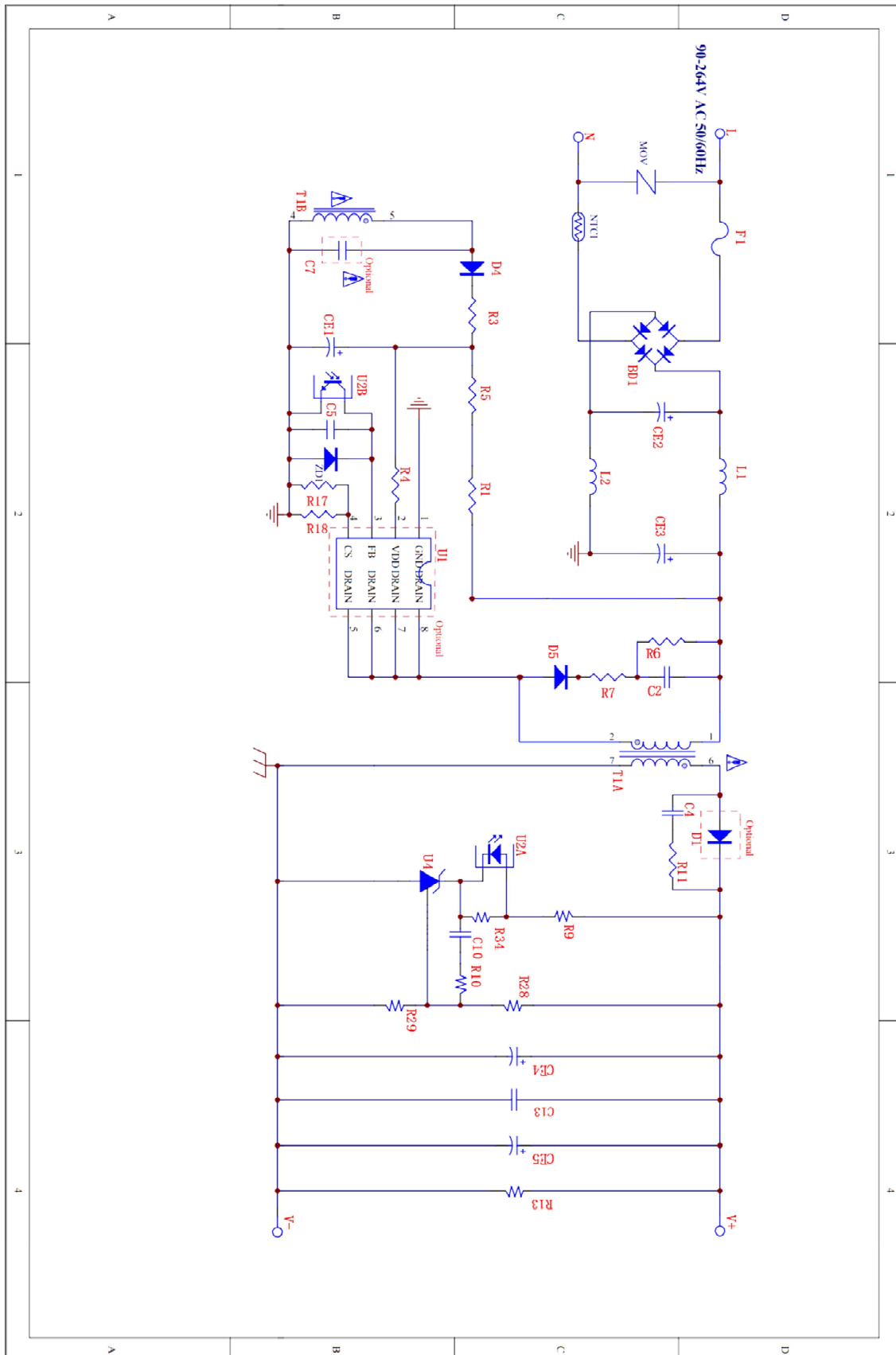
6.1 Safety Standard : K 60950-1

6.2 EMC Standard : CISPR(EN55023) Class B Limit

7. MTBF :

The design and construction of this power supply has been tested a minimum mean time between failure of 70,000 hours full rated load operation at 40°C.

8. Circuit Diagram



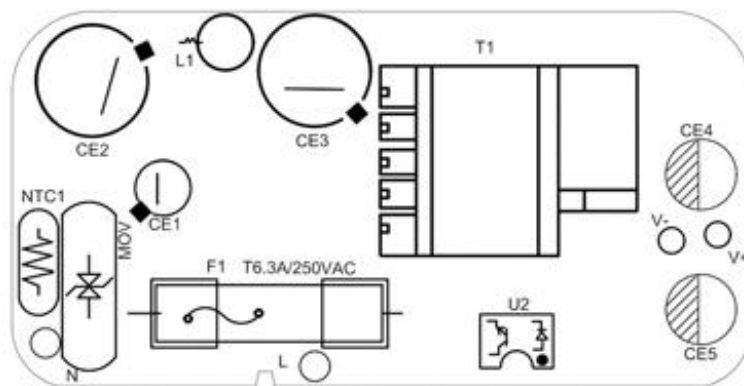
9. Part List (PL1)

NO	ITEM	SPEC	LOC NO.	UNIT	QTY
1	PCB	CEM-1 Single Layer (1.2t)	PCB	PCS	1
2	DIODE,BRIDGE	1000V 1A ; ABS10	BD1	PCS	1
3	DIODE,SMD	A7 1000V 1A SOD-123	D5	PCS	1
4	DIODE,GP	F7 1000V 1A SOD-123	D4	PCS	1
5	IC, SHUNT REGULATOR SMD	TL431, Vref=2.5V; SOT-23	U4	PCS	1
6	RESISTOR, SMD	3216 3.9 F	R17, R18	PCS	2
7	RESISTOR, SMD	3216 330K J	R6	PCS	1
8	RESISTOR,SMD	3216 51 J	R11	PCS	1
9	RESISTOR, SMD	3216 100 J	R7	PCS	1
10	RESISTOR, SMD	3216 2M J	R1, R5	PCS	2
11	RESISTOR, SMD	2012 10 J	R3, R4	PCS	2
12	RESISTOR,SMD	2012 470 J	R9	PCS	1
13	RESISTOR, SMD	2012 1K J	R10	PCS	1
14	RESISTOR, SMD	2012 5.1K J	R34	PCS	1
15	RESISTOR, SMD	1608 12.0K F	R28	PCS	1
16	RESISTOR, SMD	2012 6K J	R13	PCS	1
17	RESISTOR, SMD	1608 11.0K F	R29	PCS	1

9. Part List (PL2)

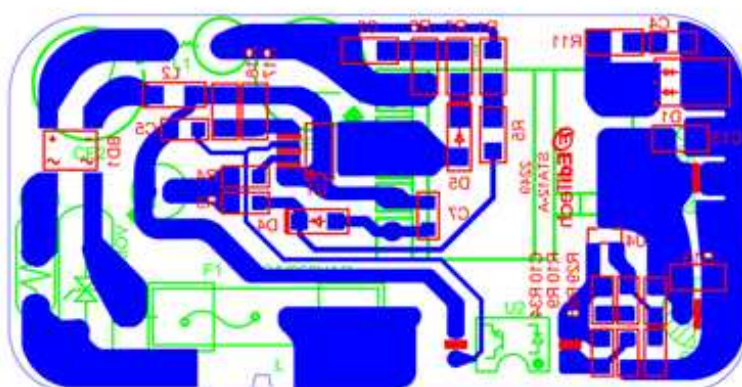
NO	ITEM	SPEC	LOC NO.	UNIT	QTY
18	CHOKE, AXIAL	470uH (04) R-FOR	L1	PCS	1
19	CAPACITOR, ELE	10uF 400V (105°C 10*16)	CE2, CE3	PCS	2
20	CAPACITOR, ELE	4.7uF50V(105°C, 5*11)	CE1	PCS	1
21	CAPACITOR, POLYMER	470uF 16V (105°C 6.3*11)	CE4, CE5	PCS	2
22	THERMISTOR, NTC	10D-9 F/T	NTC1	PCS	1
23	CHOKE, SMD	4.7uH 3216	L2	PCS	1
24	CAPACITOR, SMD	2012 104K 50V X7R	C10, C13	PCS	2
25	CAPACITOR, SMD	1206 102K 1000V X7R	C2	PCS	1
26	CAPACITOR, SMD	2012 102K 50V X7R	C4 C5	PCS	2
27	PHOTO COUPLER	EL817B or CT817B	U2	PCS	1
28	IC, PWM	SP6645HF SOP8	U1	PCS	1
29	DIODE, SCHOTTKY	DK5V	D1	PCS	1
30	VARISTOR	14D561K NDF	MOV	PCS	1
31	TRANSFORMER	STA12-T	T1	PCS	1
32	FUSE, CERAMIC	T6.3A 250V (5.25*20mm)	F1	PCS	1
33	DC Cord	AWG18, 1.5m, DC Jack(5.5*2.1*10)	-	A'y	1
34	Case (Lower & Upper)	L77 * W32 * H45 mm	-	A'y	1

10. PCB Drawing (1)



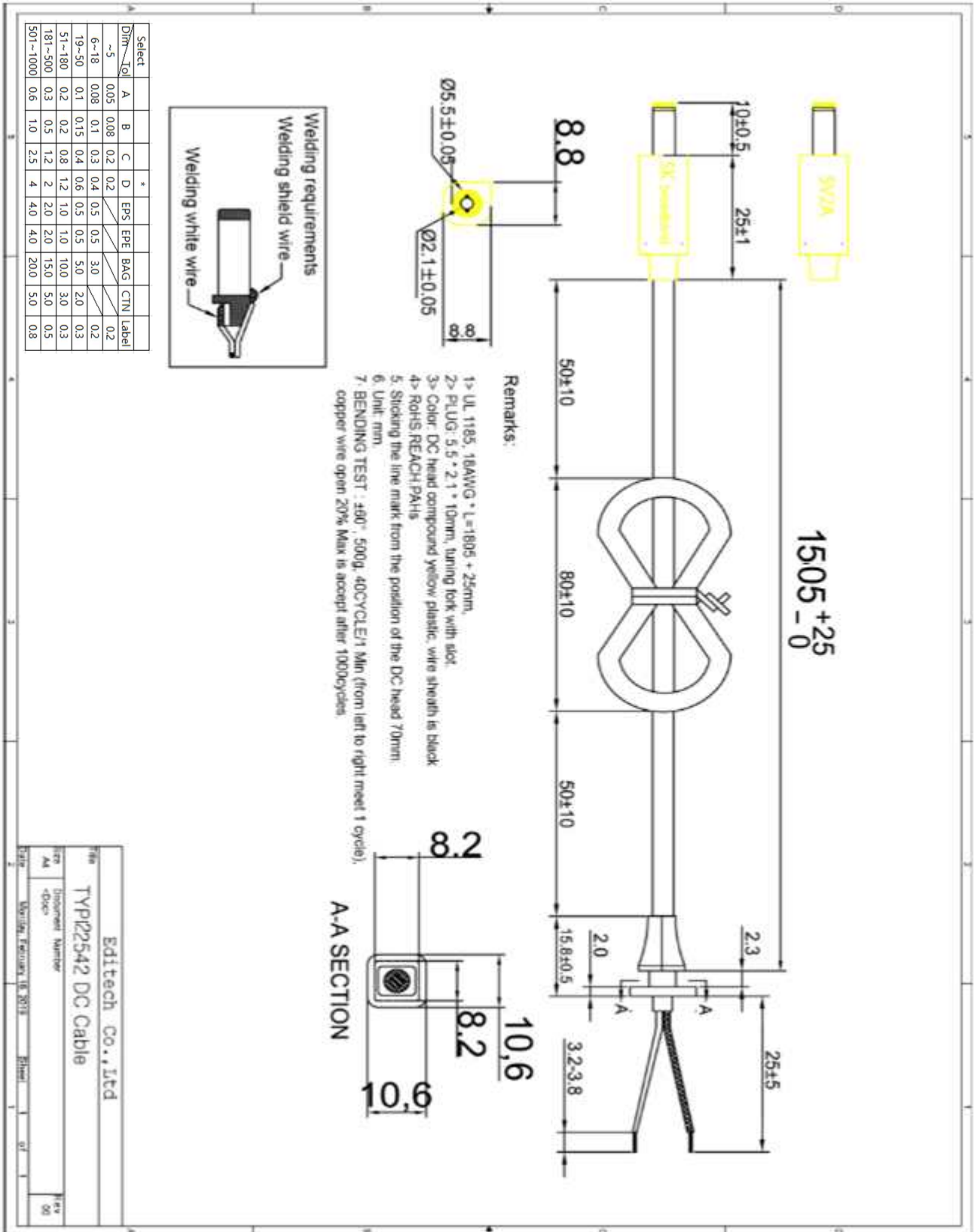
File	Editech Co.,Ltd
Size	TYPE2542 GERBER (1)
Doc	Document Number
Rev	00
Date	Monday, February 18, 2019
Sheet	1 of 1

10. PCB Drawing (2)



Editech Co., Ltd	
Doc	TYPE2542 GERBER (2)
Rev	00
Size	Document Number
MA	<Doc>
Date	Monday, February 15, 2016
Board	1
Q1	1

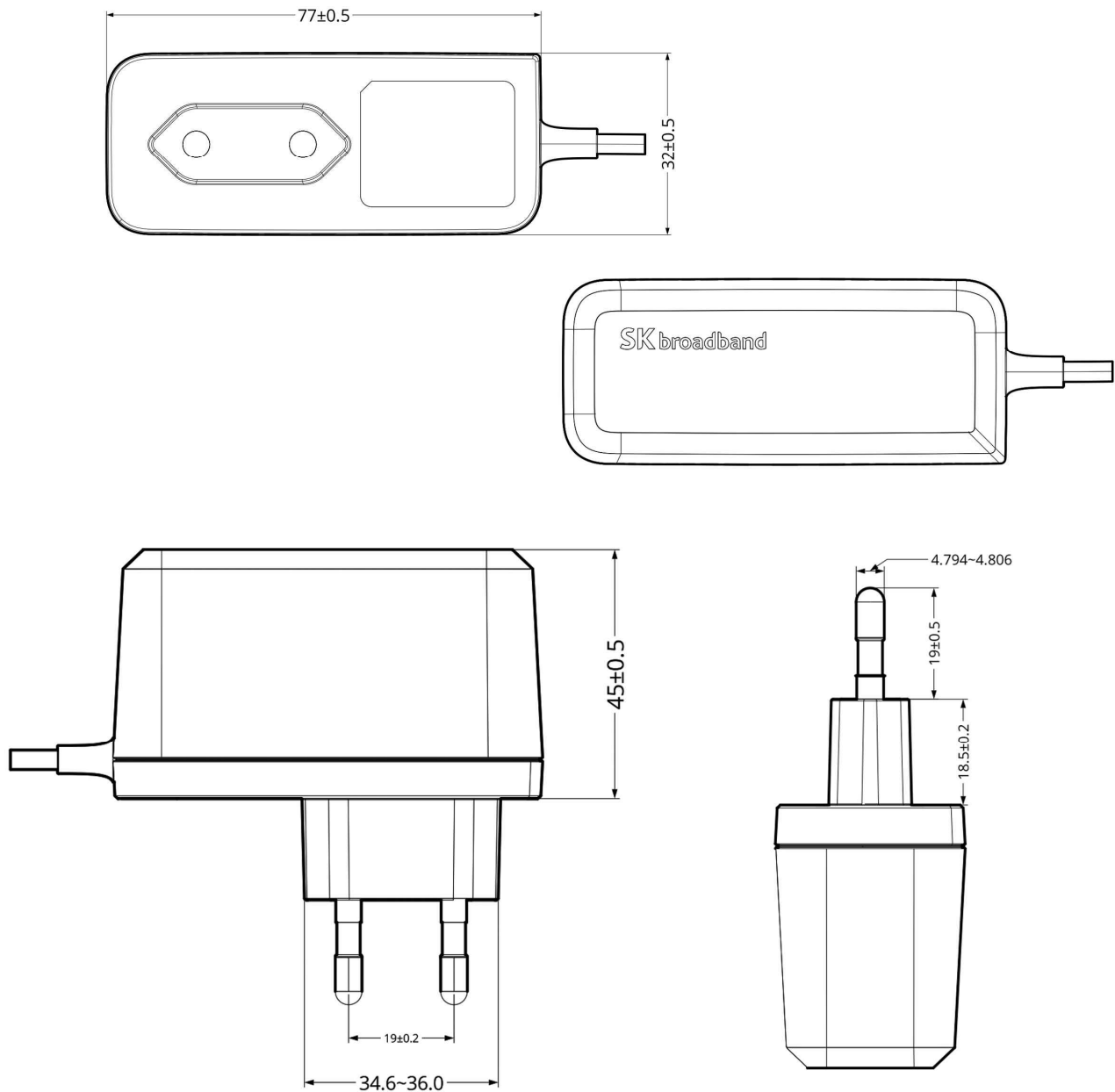
11. DC Cable



Editech Co., Ltd	
File	TYF2:2542 DC Jack $\Phi 5.5 \times \Phi 2.1 \times 23.0$
Size	Document Number
A4	<Doc>
Date	Monday, February 10, 2015
Page	Sheet 1 of 1
	Rev 00

13. Appearance Drawing (Unit:mm)

SIZE : L77 × W32 × H45 mm

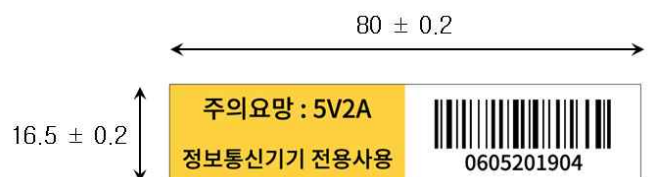
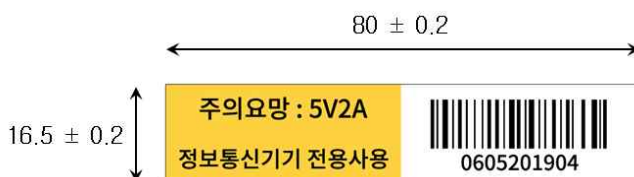


Select				*					
Dim	Tol	A	B	C	D	EPS	EPE	BAG	CTN
~5	0.05	0.08	0.2	0.2	0.5	0.5	3.0	2.0	0.2
6~18	0.08	0.1	0.3	0.4	0.5	0.5	3.0	2.0	0.2
19~50	0.1	0.15	0.4	0.6	0.5	0.5	5.0	2.0	0.3
51~180	0.2	0.2	0.8	1.2	1.0	1.0	10.0	3.0	0.3
181~500	0.3	0.5	1.2	2	2.0	2.0	15.0	5.0	0.5
501~1000	0.6	1.0	2.5	4	4.0	4.0	20.0	5.0	0.8

14. Name Plate (Unit:mm)

1st Factory : Qinli Electronic

2nd Factory : Gangheng Electronics



Select				*					
Dim	Tol	A	B	C	D	EPS	EPE	BAG	CTN
~5		0.05	0.08	0.2	0.2	0.5	0.5	3.0	0.2
6~18		0.08	0.1	0.3	0.4	0.5	0.5	3.0	0.2
19~50		0.1	0.15	0.4	0.6	0.5	0.5	5.0	0.3
51~180		0.2	0.2	0.8	1.2	1.0	1.0	10.0	0.3
181~500		0.3	0.5	1.2	2	2.0	2.0	15.0	0.5
501~1000		0.6	1.0	2.5	4	4.0	4.0	20.0	0.8

15. Packing Dimensions (1) AIR BAG (Unit:mm)

Select				*					
Dim	Tol	A	B	C	D	EPS	EPE	BAG	CTN
~5	0.05	0.08	0.2	0.2					0.2
6~18	0.08	0.1	0.3	0.4	0.5	0.5	3.0		0.2
19~50	0.1	0.15	0.4	0.6	0.5	0.5	5.0	2.0	0.3
51~180	0.2	0.2	0.8	1.2	1.0	1.0	10.0	3.0	0.3
181~500	0.3	0.5	1.2	2	2.0	2.0	15.0	5.0	0.5
501~1000	0.6	1.0	2.5	4	4.0	4.0	20.0	5.0	0.8



AIR BAG SIZE : 180x130

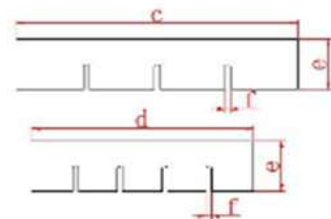
AIR BAG No. : 1DEIA501-01

TOLERANCE : ± 3



DIMENSION : K4K 6 PCS

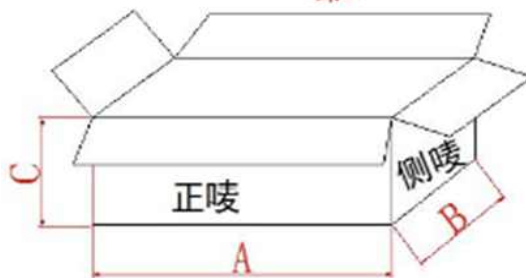
L x W x H : 455 x 365 x 3



FLAT:B=B 35 PCS HNIVES CARDBOARD:

1.THREE CARD : LxWxH(455x65x5) 20 PCS

2. FOUR CARD : LxWxH(365x65x5) 15 PCS



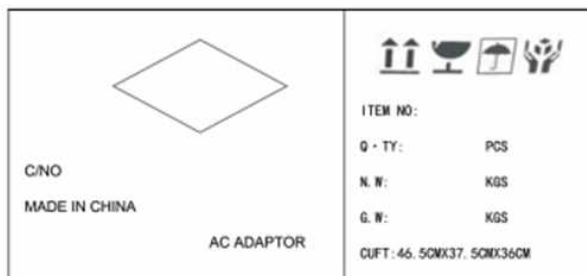
OUT CARTON DIMENSION :

L x W x H : 470 x 240 x 470

TOLERANCE : ± 5

1 OUT CARTON

=100 PCS



	A	B	C	a	b
mm	470	240	470	455	365
	c	d	e	f	
mm	455	365	65	5	

NOTE : A box of 100 pcs a total of 5 layers of 20 pcs.

- 1) Clapboard material: K4K, knife material: B=B
- 2) Outer Carton Material : A=B
- 3) Anti static: No requirement.
- 4) Environmental protection requirement: 94/62/EC.
- 5) We will select cardboard packing if customer don't specify packing type.
- 6) The sample package for temporary packaging, the big goods packaging as shown above packaging.

16. Appendix(1) : Name Plate

No.	AS IS	TO BE
1	제 품 명 : 직류전원장치(SMPS) 모 델 명 : TYPE2542 안전인증번호 : HH10319-20004 전자파적합등록 : R-R-Edt-TYPE2542 정격입력 : 100-250V ~, 50/60Hz, 0.5A 정격출력 : DC 5V / 2A 제 조 사 : Dongguan Gangheng Electronics Co., Ltd. A / S : 031-398-3661 수입원/납품업체 : (주)에디테크  0605201904 최저소비효율기준 만족 제품 MADE IN CHINA 	제 품 명 : 직류전원장치(SMPS) 모 델 명 : TYPE2542 안전인증번호 : HH10319-20004 전자파적합등록 : R-R-Edt-TYPE2542 정격입력 : 100-250V ~, 50/60Hz, 0.5A 정격출력 : DC 5V / 2A 제 조 사 : Dongguan City Qinli Electronic Co., Ltd. A / S : 031-398-3661 수입원/납품업체 : (주)에디테크  0605202206 최저소비효율기준 만족 제품 MADE IN CHINA 
2		제 품 명 : 직류전원장치(SMPS) 모 델 명 : TYPE2542 안전인증번호 : HH10319-20004 전자파적합등록 : R-R-Edt-TYPE2542 정격입력 : 100-250V ~, 50/60Hz, 0.5A 정격출력 : DC 5V / 2A 제 조 사 : Dongguan Gangheng Electronics Co., Ltd. A / S : 031-398-3661 수입원/납품업체 : (주)에디테크  0605201904 최저소비효율기준 만족 제품 MADE IN CHINA 
3		

No.	AS IS	TO BE																												
1	<table><tr><td>Order No</td><td>000000-O</td></tr><tr><td>Model</td><td>TYPE2541</td></tr><tr><td>Manufacture</td><td>Gangheng Electronics</td></tr><tr><td>FXN P/N</td><td>000.00000.00000</td></tr><tr><td>Quantity / box</td><td>100PCS</td></tr><tr><td>Manufacture Date</td><td>0000-00-00</td></tr><tr><td>Remark</td><td>5V2A</td></tr></table>	Order No	000000-O	Model	TYPE2541	Manufacture	Gangheng Electronics	FXN P/N	000.00000.00000	Quantity / box	100PCS	Manufacture Date	0000-00-00	Remark	5V2A	<table><tr><td>Order No</td><td>000000-O</td></tr><tr><td>Model</td><td>TYPE2542</td></tr><tr><td>Manufacture</td><td>Qinli Electronic</td></tr><tr><td>OOO P/N</td><td>0000000000000</td></tr><tr><td>Quantity / box</td><td>100PCS</td></tr><tr><td>Manufacture Date</td><td>0000-00-00</td></tr><tr><td>Remark</td><td>5V2A</td></tr></table>	Order No	000000-O	Model	TYPE2542	Manufacture	Qinli Electronic	OOO P/N	0000000000000	Quantity / box	100PCS	Manufacture Date	0000-00-00	Remark	5V2A
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	Manufacture	Gangheng Electronics																												
	FXN P/N	000.00000.00000																												
	Quantity / box	100PCS																												
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	Remark	5V2A																												
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Remark	5V2A																													
2		<table><tr><td>Order No</td><td>000000-O</td></tr><tr><td>Model</td><td>TYPE2542</td></tr><tr><td>Manufacture</td><td>Gangheng Electronics</td></tr><tr><td>OOO P/N</td><td>0000000000000</td></tr><tr><td>Quantity / box</td><td>100PCS</td></tr><tr><td>Manufacture Date</td><td>0000-00-00</td></tr><tr><td>Remark</td><td>5V2A</td></tr></table>	Order No	000000-O	Model	TYPE2542	Manufacture	Gangheng Electronics	OOO P/N	0000000000000	Quantity / box	100PCS	Manufacture Date	0000-00-00	Remark	5V2A														
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Remark	5V2A																													
3																														

17. EMC Test Result (1) CE



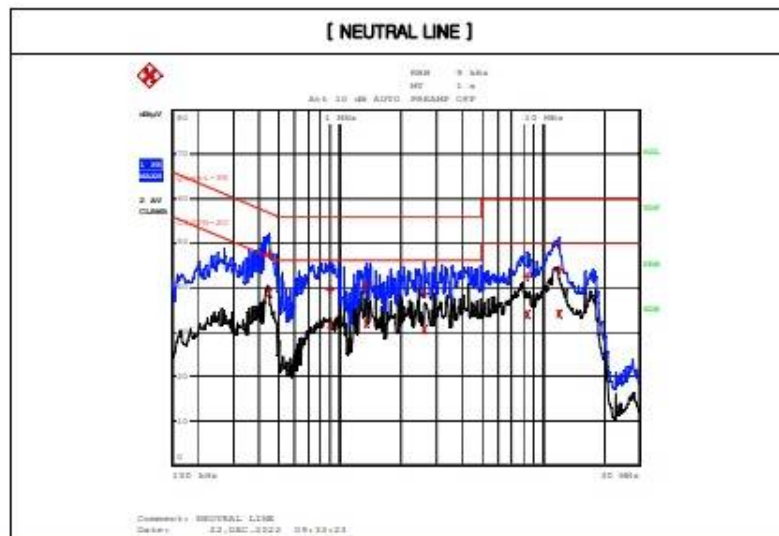
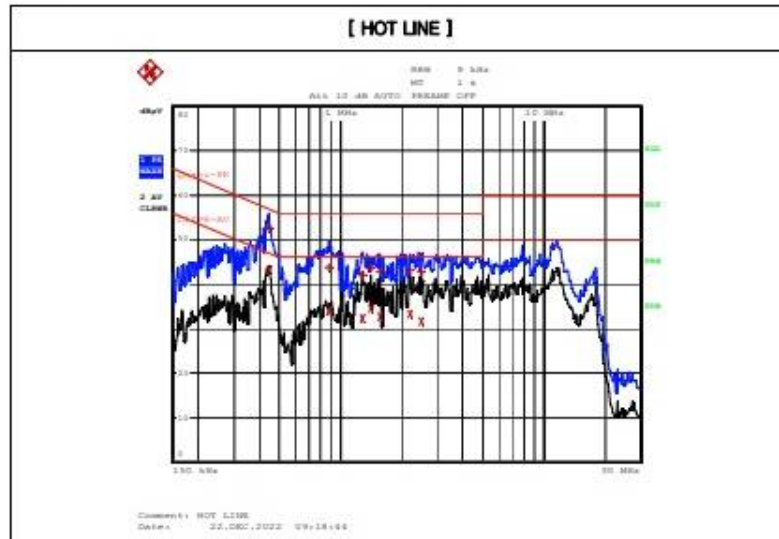
발급번호 : ESTCPT2212-002

6.1.5 시험결과 : ☒ 적합 ☐ 부적합 ☐ 해당없음

○ 시험일 : 2022 년 12 월 22 일

측정 데이터

주파수 [MHz]	보정계수[dB]		극성	준점두치				CISPR-평균치			
	LISN	Cable		제한치 [dBμV]	측정값 [dBμV]	결과값 [dBμV]	Margin [dB]	제한치 [dBμV]	측정값 [dBμV]	결과값 [dBμV]	Margin [dB]
0.44	0.04	0.15	H	56.98	52.63	52.82	4.16	46.98	43.23	43.42	3.56
0.45	0.04	0.15	N	56.87	47.57	47.76	9.11	46.87	38.80	38.99	7.88
0.88	0.04	0.17	H	56.00	43.87	44.08	11.92	46.00	33.83	34.04	11.96
1.41	0.04	0.20	H	56.00	43.77	44.01	11.99	46.00	34.56	34.80	11.20
2.22	0.06	0.24	H	56.00	43.18	43.48	12.52	46.00	33.32	33.62	12.38
2.51	0.06	0.24	H	56.00	42.81	43.11	12.89	46.00	31.66	31.96	14.04



17. EMC Test Result(2) RE (30 ~ 1GHz)

6.2.5 시험결과 : ☒ 적합 ☐ 부적합 ☐ 해당없음

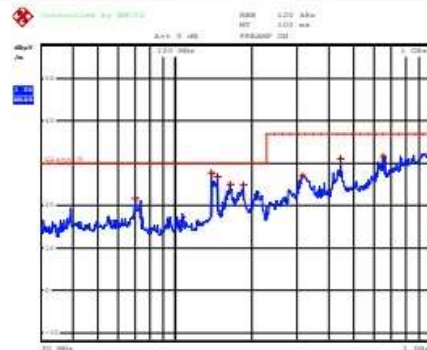
○ 시험일 : 2022 년 12 월 22 일

측정 데이터

주파수 [MHz]	계기지시치 [dBμV]	편파 (H/V)	안테나 높이 [m]	보정계수		제한치 [dBμV/m]	결과값 [dBμV/m]	Margin [dB]
				안테나 [dB/m]	케이블 [dB]			
66.70	12.21	V	1.2	12.29	1.11	30.00	25.61	4.39
83.50	15.12	V	1.2	8.34	1.26	30.00	24.72	5.28
96.10	17.06	V	1.0	7.99	1.35	30.00	26.40	3.60
139.30	11.65	V	1.0	12.44	1.62	30.00	25.71	4.29
147.30	9.17	H	4.0	13.00	1.67	30.00	23.84	6.16
154.40	9.19	V	1.0	13.00	1.72	30.00	23.91	6.09
203.40	12.09	V	1.0	9.90	2.03	30.00	24.02	5.98

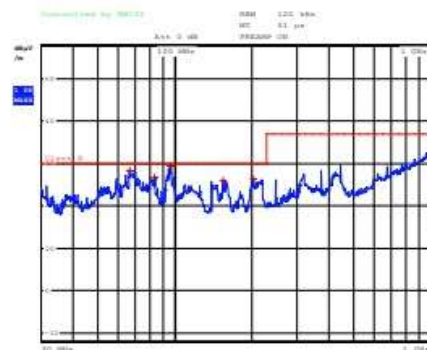
* 편파의 H 는 수평, V 는 수직을 나타낸다.

【측정 그래프 수평】



HORIZONTAL
Date: 22.Oct.2022 06:58:56

【측정 그래프 수직】



VERTICAL
Date: 22.Oct.2022 06:57:14

17. EMC Test Result(3) RE (1 ~ 6GHz)

6.3.5 시험결과 : ☒ 적합 ☐ 부적합 ☐ 해당없음

○ 시험일 : 2022 년 12 월 22 일

측정 데이터-첨두치(Peak)

주파수 [MHz]	계기값 [dBμV]	편파 (H/V)	안테나 높이 [m]	보정계수		제한치 [dBμV/m]	결과값 [dBμV/m]	Margin [dB]
				안테나 [dB/m]	케이블 [dB]			
1176.00	61.00	H	1.0	24.70	-42.71	70.00	42.99	27.01
1176.00	61.31	V	1.0	24.70	-42.71	70.00	43.30	26.70
1322.00	62.07	H	1.0	25.30	-42.40	70.00	44.97	25.03
1322.00	65.31	V	1.0	25.30	-42.40	70.00	48.21	21.79
2134.00	57.57	H	1.0	27.04	-40.40	70.00	44.21	25.79
2134.00	59.16	V	1.0	27.04	-40.40	70.00	45.80	24.20

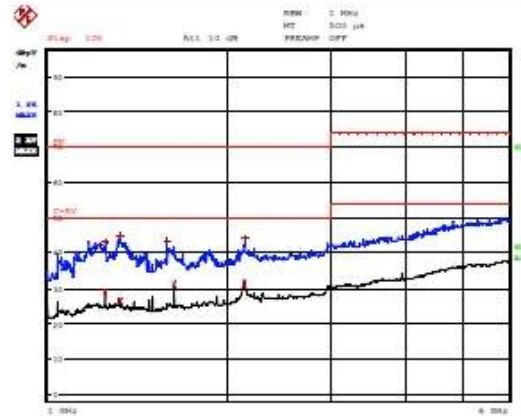
• 편파의 H 는 수평, V 는 수직을 나타낸다

측정 데이터-평균치(Clapr-Average)

주파수 [MHz]	계기값 [dBμV]	편파 (H/V)	안테나 높이 [m]	보정계수		제한치 [dBμV/m]	결과값 [dBμV/m]	Margin [dB]
				안테나 [dB/m]	케이블 [dB]			
1176.00	46.69	H	1.0	24.70	-42.71	50.00	28.68	21.32
1176.00	42.63	V	1.0	24.70	-42.71	50.00	24.62	25.38
1322.00	43.65	H	1.0	25.30	-42.40	50.00	26.55	23.45
1322.00	44.56	V	1.0	25.30	-42.40	50.00	27.46	22.54
2134.00	44.78	H	1.0	27.04	-40.40	50.00	31.42	18.58
2134.00	42.47	V	1.0	27.04	-40.40	50.00	29.11	20.89

• 편파의 H 는 수평, V 는 수직을 나타낸다

[측정 그래프 수평]



[측정 그래프 수직]

