



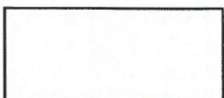
全漢企業股份有限公司

安規證書

料號 :
Model Name FSP015-DPAN3
版次 : 01
文件編號 : SFD-00004430
作者 : doration/田婷瑋(FSP)
Model No/Type : FSP015-DPAN3
SFA NO. : SFA19111068
Trade mark : -
安規種類 : KC/資訊類
發行日期 : 2019/12/17 11:20:35
備註 : 新增

64EB-1655-C9A1-8604

방송통신기자재등의 적합등록 필증 Registration of Broadcasting and Communication Equipments	
상호 또는 성명 Trade Name or Registrant	Zhonghan Electronics (Shenzhen) Co., Ltd.
기자재명칭(제품명칭) Equipment Name	AC Adapter
기본모델명 Basic Model Number	FSP015-DPAN3
파생모델명 Series Model Number	
등록번호 Registration No.	R-R-FSZ-FSP015-DPAN3
제조사/제조(조립)국가 Manufacturer/Country of Origin	Zhonghan Electronics (Shenzhen) Co., Ltd. / 중국
등록연월일 Date of Registration	2019-12-04
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) 12월(Month) 04일(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.	



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안전인증번호: HU10142-19206A
(Certificate No)

접수번호: 20191128 - 0037
(Receipt No)

1. 기본모델 · 파생모델의 내용(General Descriptions of Certified Products)

1.1 제품의 설명 (Product description)

인제제품의 개요는 다음과 같다.

(Information on certified basic model product is as follow)

구분 (Section)	내 용 (Description)
용도 (Normal use)	Switching Power Adapter
내부구조 (Internal construction)	The apparatus consists of Switching transformer, rectifying part etc.
외부구조 (External construction)	It consists of the plastic enclosure which is secured by ultra-sonic welding and appliance inlet.
기타 (Others)	Class I, CB Test Certificate is issued by TUV Rheinland Japan Ltd. (JPTUV-092963-M1)

1.2 전기용품의 표시: 전기용품 및 생활용품 안전관리법 시행규칙 제20조(안전인증의 표시)에 따라 표시한다.

(Marking of KC Mark: Marking shall comply with the Article 20 of the Enforcement Rule of the

Electrical Appliances and Consumer Products Safety Control Act.)

1.3 등록 모델 (Registered Models)

구분 (Class)	모델명 및 정격 (Model / Rating)	기본모델과의 차이점 (Difference between basic model and series model)
기본모델 (Basic model)	FSP015-0PAM3	100~240 V~, 50~60 Hz, 0.5 A (O/P: 5 Vdc, 3.0 A Max.)

[서식 CP401-18-00]

2. 안전관리 부품 및 재질목록(List of Critical Components)

부품명(회로기호) Components(Part no.)	제조사(상표명) Manufacturer (Brand)	모델명(형식) Model (Type)	정격 또는 특성 (Technical Data)	인증규격 (Certification)
Top Plastic Enclosure	Lotte Advanced Materials Co., Ltd.	HN-1064(+)	Min. 2.0 mm thickness, min. V-0, min. 130 °C	UL
(Alt.)	Sabic Innovative Plastics US L L C	945 (GG)	Min. 2.0 mm thickness, min. V-0, min. 120 °C	UL
Bottom Plastic Enclosure	Lotte Advanced Materials Co., Ltd.	HN-1064(+)	Min. 1.6 mm thickness, min. V-0, min. 130 °C	UL
(Alt.)	Sabic Innovative Plastics US L L C	945 (GG)	Min. 1.6 mm thickness, min. V-0, min. 120 °C	UL
AC Inlet (CN1) (C14 type)	Rong Feng Industrial Co., Ltd.	SS-120, SS-7B	250 Vac, 10 A, 70 °C	IEC
(Alt.)	Solteam Electronics Co., Ltd.	ST-01	250 Vac, 10 A, 70 °C	IEC
(Alt.)	Canal Electronic Co., Ltd.	KS-101, KS-201, KS-202, KS-303, KS-406	250 Vac, 10 A, 70 °C	IEC
(Alt.)	Zhe Jiang Bei Er Jia Electronic Co., Ltd.	ST-A01-001L, ST-A01-002L, ST-A01-003J, ST-A01-003K	250 Vac, 10 A, 70 °C	IEC
(Alt.)	Inalways Corporation	0714-... Series	250 Vac, 10 A, 70 °C	IEC
(Alt.)	Rich Bay Co., Ltd.	R-301SN	250 Vac, 10 A, 70 °C	IEC
(Alt.)	Tecx-Unions Technology Corp.	TU-301-A, TU-301-AP, TU-301-AP-A, TU-301-S, TU-301-SP	250 Vac, 10 A, 70 °C	IEC
(Alt.)	HCR Electronics Co., Ltd.	SK01	250 Vac, 10 A, 70 °C	IEC

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접수번호: 20191128 - 0037
(Receipt No)

부품명(회로기호) Components(Part no.)	제조사(상표명) Manufacturer (Brand)	모델명(형식) Model (Type)	정격 또는 특성 (Technical Data)	인증규격 (Certification)
Fuse (F1)	Littelfuse, Inc. Wickmann - Werke (VDE) Littelfuse Wickmann Werke (UL)	392	250 Vac, T 2.0 AL	IEC
(Alt.)	Ever Island Electric Co Ltd & Walter Electric Co., Ltd.	2010 series	250 Vac, T 2.0 AL	IEC
(Alt.)	Conquer Electronics Co., Ltd.	MST-series	250 Vac, T 2.0 AL	IEC
(Alt.)	BEL Fuse Ltd.	RST-series	250 Vac, T 2.0 AL	IEC
(Alt.)	Cooper Bussmann L L C	SS-5	250 Vac, T 2.0 AL	IEC
Choke (L1) (Optional)	FSP/SPI	8LM00377	130 ℃	
X-Capacitor (CX1) (Optional) (X1 or X2 type)	Hua Jung Components Co., Ltd.	MKP	Max. 0.22 μ F, Min. 250 Vac, Min. 100 ℃	IEC
(Alt.)	Zhuthai Sung Ho Electronics Co., Ltd	CMPP	Max. 0.22 μ F, Min. 250 Vac, Min. 100 ℃	IEC
(Alt.)	Okaya Electric Industries Co., Ltd.	LE(-*), RE-series	Max. 0.22 μ F, Min. 250 Vac, Min. 100 ℃	IEC
(Alt.)	Carl Electronics Co., Ltd.	MPX	Max. 0.22 μ F, Min. 250 Vac, Min. 100 ℃	IEC
(Alt.)	Iskra, d d	KNB1530	Max. 0.22 μ F, Min. 250 Vac, Min. 100 ℃	IEC
(Alt.)	Iskra, d d	KNB1560, KNB1563, KNB1562	Max. 0.22 μ F, Min. 250 Vac, Min. 100 ℃	IEC
(Alt.)	Shiny Space Enterprise Co., Ltd.	SX1	Max. 0.22 μ F, Min. 250 Vac, Min. 100 ℃	IEC
(Alt.)	Ultra Tech Xiphi Enterprise Co., Ltd.	HQX	Max. 0.22 μ F, Min. 250 Vac, Min. 100 ℃	IEC
Choke (L2) (Optional)	FSP/SPI	8LE00590	130 ℃	-
(Alt.)	FSP/SPI	8LE00704	130 ℃	-

[서식 GP401-18-00]

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부품명 (회로기호) Component's (Part no.)	제조사 (상표명) Manufacturer (Brand)	모델명 (형식) Model (Type)	정격 또는 특성 (Technical Data)	인증규격 (Certification)
Varistor (V1) (Optional)	Thinking Electronic Industrial Co., Ltd.	TVR10471-D, TVR10471-V, TVR10471-M TVR14471 TVR14471-D, TVR14471-V, TVR14471-M TVR20471 TVR20471-D, TVR20471-V, TVR20471-M	300 Vac, 385 Vdc (Flame class of body coating complied with V-0)	IEC
(Alt.)	Thinking Electronic Industrial Co., Ltd.	TVR10511-D, TVR10511-V, TVR10511-M TVR14511 TVR14511-D, TVR14511-V, TVR14511-M TVR20511 TVR20511-D, TVR20511-V, TVR20511-M	320 Vac, 410 Vdc (Flame class of body coating complied with V-0)	IEC
(Alt.)	Thinking Electronic Industrial Co., Ltd.	TVR10561-D, TVR10561-V, TVR10561-M TVR14561 TVR14561-D, TVR14561-V, TVR14561-M TVR20561 TVR20561-D, TVR20561-V, TVR20561-M	350 Vac, 450 Vdc (Flame class of body coating complied with V-0)	IEC
(Alt.)	Thinking Electronic Industrial Co., Ltd.	TVR10621-D, TVR10621-V, TVR10621-M TVR14621 TVR14621-D, TVR14621-V, TVR14621-M TVR20621 TVR20621-D, TVR20621-V, TVR20621-M	395 Vac, 510 Vdc (Flame class of body coating complied with V-0)	IEC

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부품명(品名)	제조사(製造廠)	모델명(型名)	정격 또는 특성 (Technical Data)	인증규격 (Certification)
Component(s)(Part no.)	Manufacturer (Brand)	Model (Type)		
(Alt.)	Thinking Electronic Industrial Co., Ltd.	TVR10681-D, TVR10681-V, TVR10681-M TVR14681 TVR14681-D, TVR14681-V, TVR14681-M TVR20681 TVR20681-D, TVR20681-V, TVR20681-M	420 Vac, 560 Vdc (Flame class of body coating complied with V-0)	IEC
(Alt.)	Thinking Electronic Industrial Co., Ltd.	TVR10751-D, TVR10751-V, TVR10751-M TVR14751 TVR14751-D, TVR14751-V, TVR14751-M TVR20751 TVR20751-D, TVR20751-V, TVR20751-M	465 Vac, 615 Vdc (Flame class of body coating complied with V-0)	IEC
(Alt.)	Guangxi New Future Information Industry Co., Ltd.	10D471K, 14D471K, 20D471K	300 Vac, 385 Vdc (Flame class of body coating complied with V-0)	IEC
(Alt.)	Guangxi New Future Information Industry Co., Ltd.	10D511K, 14D511K, 20D511K	320 Vac, 415 Vdc (Flame class of body coating complied with V-0)	IEC
(Alt.)	Guangxi New Future Information Industry Co., Ltd.	10D561K, 14D561K, 20D561K	350 Vac, 460 Vdc (Flame class of body coating complied with V-0)	IEC
(Alt.)	Guangxi New Future Information Industry Co., Ltd.	10D621K, 14D621K, 20D621K	385 Vac, 505 Vdc (Flame class of body coating complied with V-0)	IEC
(Alt.)	Guangxi New Future Information Industry Co., Ltd.	10D681K, 14D681K, 20D681K	420 Vac, 560 Vdc (Flame class of body coating complied with V-0)	IEC
(Alt.)	Guangxi New Future Information Industry Co., Ltd.	14D751K	460 Vac, 615 Vdc (Flame class of body coating complied with V-0)	IEC
(Alt.)	EPCOS OHG (VDE) EPCOS (Zhuhai FTZ) Co., Ltd. (US)	S10K300, S10K300E2, S10K300E2k1, S14K300 S14K300E2, S14K300E2k1, S20K300, S20K300E2, S20K300E3k1	300 Vac, 385 Vdc (Flame class of body coating complied with V-0)	IEC

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부품명 (회로기호) Component (Part no.)	제조사 (상표명) Manufacturer (Brand)	모델명 (형식) Model (Type)	정격 또는 특성 (Technical Data)	인증규격 (Certification)
(Alt.) EPCOS OHG (VDE) EPCOS (Zhuhai FTZ) Co., Ltd. (US)		S10K320, S10K320E2, S10K320E2K1, S14K320, S14K320E2, S14K320E2K1, S20K320, S20K320E2, S20K320E3K1	320 Vac, 420 Vdc (Flame class of body coating complied with V-0)	IEC
(Alt.) EPCOS OHG (VDE) EPCOS (Zhuhai FTZ) Co., Ltd. (US)		S10K350E2K1, S14K350E2K1, S20K350E3K1	350 Vac, 460 Vdc (Flame class of body coating complied with V-0)	IEC
(Alt.) EPCOS OHG (VDE) EPCOS (Zhuhai FTZ) Co., Ltd. (US)		S10K385, S10K385E2, S10K385E2K1, S14K385, S14K385E2, S14K385E2K1, S20K385, S20K385E2, S20K385E3K1	385 Vac, 505 Vdc (Flame class of body coating complied with V-0)	IEC
(Alt.) EPCOS OHG (VDE) EPCOS (Zhuhai FTZ) Co., Ltd. (US)		S10K420, S10K420E2, S10K420E2K1, S14K420, S14K420E2, S14K420E2K1, S20K420, S20K420E2, S20K420E3K1	420 Vac, 560 Vdc (Flame class of body coating complied with V-0)	IEC
(Alt.) EPCOS OHG (VDE) EPCOS (Zhuhai FTZ) Co., Ltd. (US)		S10K440, S14K440, S20K440	440 Vac, 585 Vdc (Flame class of body coating complied with V-0)	IEC
(Alt.) EPCOS OHG (VDE) EPCOS (Zhuhai FTZ) Co., Ltd. (US)		S10K460, S10K460E2, S10K460E2K1, S14K460, S14K460E2, S14K460E2K1, S20K460, S20K460E2, S20K460E3K1	460 Vac, 615 Vdc (Flame class of body coating complied with V-0)	IEC
Photo Coupler (U2)	Cosmo Electronics Corp	K1010	Di=0.5 mm, Int. dcr = thermal cycling test, Ext. dcr= 8.0 mm, 115 °C	IEC
(Alt.) Everlight Electronics Co., Ltd.		EL817	Di=0.5 mm, Int. dcr=6.0 mm, Ext. dcr= 7.7 mm, 110 °C	IEC

[서식 CP401-18-00]

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부품명 (회로기호) Component(s)/Part no.)	제조사(상표명) Manufacturer (Brand)	모델명 (형식) Model (Type)	정격 또는 특성 (Technical Data)	인증규격 (Certification)
(Alt.)	Lite-On Technology Corporation	LTV-817	Dit=0.6 mm, Int. dcr=thermal cycling test, Ext. dcr= 7.8 mm, 115 ℃	IEC
(Alt.)	Vishay Semiconductor GmbH (VDE) Vishay Infrared Components Inc. (UL)	TCET1103	Dit=0.4 mm, Int. dcr = thermal cycling test, Ext. dcr= 7 mm, 110 ℃	IEC
(Alt.)	Vishay Semiconductor GmbH (VDE) Vishay Infrared Components Inc. (UL)	TCET1108, TCET1109	Dit=0.5 mm, Int. dcr = 6.0 mm, Ext. dcr= 7.7 mm, 110 ℃	IEC
(Alt.)	Vishay Semiconductor GmbH (VDE) Vishay Infrared Components Inc. (UL)	TCET1103G, TCET1104G, TCET1108G, TCET1109G, TCET1114G	Dit=0.5 mm, Int. dcr = 6.0 mm, Ext. dcr= 8.0 mm, 110 ℃	IEC
(Alt.)	Vishay Semiconductor GmbH (VDE) Vishay Infrared Components Inc. (UL)	SPH617A-..	Dit=0.6 mm, Int. dcr = thermal cycling test, Ext. dcr= 7.8 mm, 115 ℃	IEC
(Alt.)	Sharp Corporation Electronic Components and Devices Division (VDE) SHARP CORP ELECTRONIC COMPONENTS AND DEVICES BU (UL)	PC123	Dit=0.4 mm, Int. dcr= thermal cycling test, Ext. dcr=8.0 mm, 110 ℃	IEC
(Alt.)	Toshiba Electronic Devices (VDE) TOSHIBA ELECTRONIC DEVICES & STORAGE CORPORATION (UL)	TLP781F, TLP781	Dit=0.5 mm, Ext. dcr=8.0 mm, thermal cycling test, 115 ℃	IEC
(Alt.)	China Resources Semiconductor (Shenzhen) Ltd.	PC817x	Dit=0.4 mm, Ext. dcr= 7.62 mm, Vin1,a/ Vin1,b = 7000 Vpeak, 110 ℃	IEC

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부품명(회로기호) Component(s)(Part no.)	제조사(상표명) Manufacturer (Brand)	모델명(형식) Model (Type)	정격 또는 특성 (Technical Data)	인증규격 (Certification)
Transformer (T1)	FSP/SPi	8T102035	Class B, UL Insulation system type Df-130	-
Bridging- Capacitor (CY1) Optional (Y1 type)	Walsin Technology Corp.	AH	Min. 250 V, min 125 ℃, max. 2200 pF	IEC
(Alt.)	TDK Corporation	CD CD (miniature series)	Min. 250 V, min 125 ℃, max. 2200 pF	IEC
(Alt.)	Murata Mfg Co., Ltd.	KX RA	Min. 250 V, min 125 ℃, max. 2200 pF	IEC
(Alt.)	Success, Electronics Co., Ltd.	SB, SE, SF	Min. 250 V, min 125 ℃, max. 2200 pF	IEC
(Alt.)	Yinan Don's Electronic Component Co.,Ltd	CT81	Min. 250 V, min 125 ℃, max. 2200 pF	IEC
(Alt.)	GUANGDONG HUIWAN ELECTRONICS TECHNOLOGY CO.,LTD	AR	Min. 250 V, min 125 ℃, max. 2200 pF	IEC
PCB	Interchangeable	Interchangeable	V-0 min., 130 ℃	UL

[서식 CP401-18-00]

3. 전기용품안전인증의 변경현황 (Status of Certificate Revisions)

일지 (Date)	발급현황 (Status of issues)
	변경내용 (Modification of Contents)
2019/12/16	기본모델 (Basic Model)

4. 기타 (Carefully Informed Note)

- 1) 안전관리부품 및 재질목록에 기재된 사항은 안전에 직접적인 영향을 주는 부분이므로 내용을 변경 또는 복수등재를 원하는 경우 안전인증변경신청 또는 안전확인변경신고를 하여야 합니다. 안전인증변경신청 또는 안전확인변경신고를 하지 않고 임의로 변경하는 경우에는 전기용품 및 생활용품 안전관리법에 따라 행정조치 될 수 있습니다.
The certificate holder should apply for a revision of the certificate if the registered critical components are to be changed, modified or alternated. Should the contents of Certificate are altered without the application for the modification, the administrative measures can occur according to the Electrical Appliances and Consumer Products Safety Control Act.
- 2) 정기검사(시료채취포함)를 거부, 방해 또는 기피하는 경우에는 전기용품 및 생활용품 안전관리법 제11조에 따라 안전인증이 취소될 수 있습니다.
If Follow-up Factory Inspection, including sampling representative model by 11 categories of the certified product at factory-site for re-testing, should not has been arranged by Certificate holder, Safety Certification(KC Mark) may be withdrawn according to the Article 11 of the Electrical Appliances and Consumer Products Safety Control Act.
- 3) 공장주소(전화번호포함), 대표자, 상호 및 부품변경, 신고인정보 등 안전인증 또는 안전확인신고의 내용이 변경되었을 때, 안전인증변경신청 또는 안전확인변경신고를 하지 않을 경우에는 전기용품 및 생활용품 안전관리법에 따라 행정조치 될 수 있습니다.
Should a factory address, president name, manufacturer name and critical component are altered without the application for the modification, the administrative measures can occur according to the Electrical Appliances and Customer Products Safety Control Act.
- 4) 조건부 인증사항 (Conditional certification items):



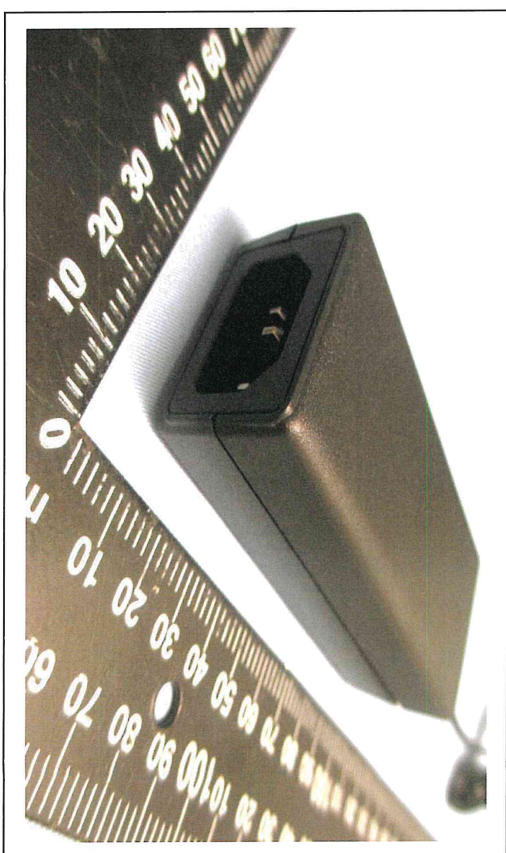
기초연구지원사업

안전인증번호: HU10142-19206A
No. 1 KC Label

접수번호: 20191128-0037



No.2 External View



한국기계전기전자시험연구원

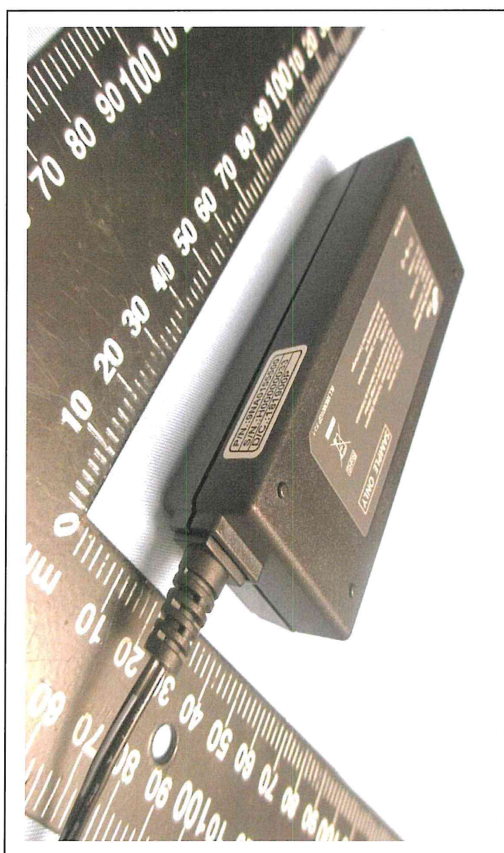
Korea Testing Certification

기술문서붙임자료

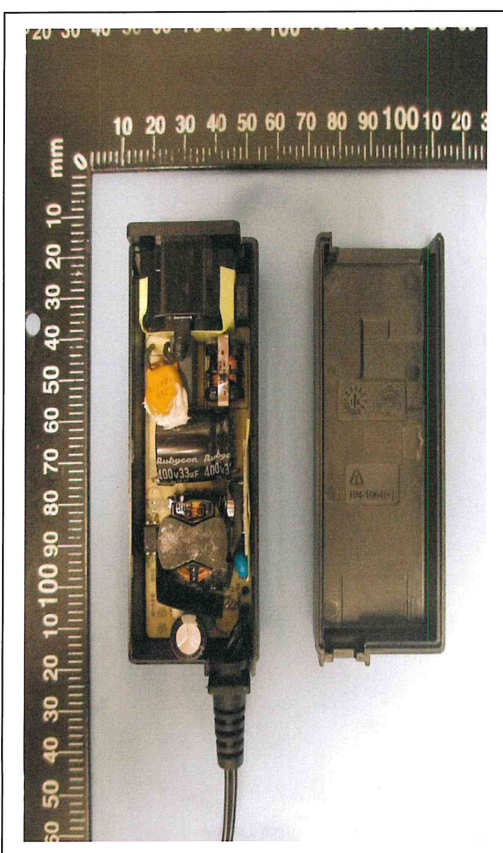
안전인증번호: HU10142-19206A

접수번호: 20191128-0037

No.3 External View



No.4 Internal View



한국기계전기전자시험연구원

Korea Testing Certification

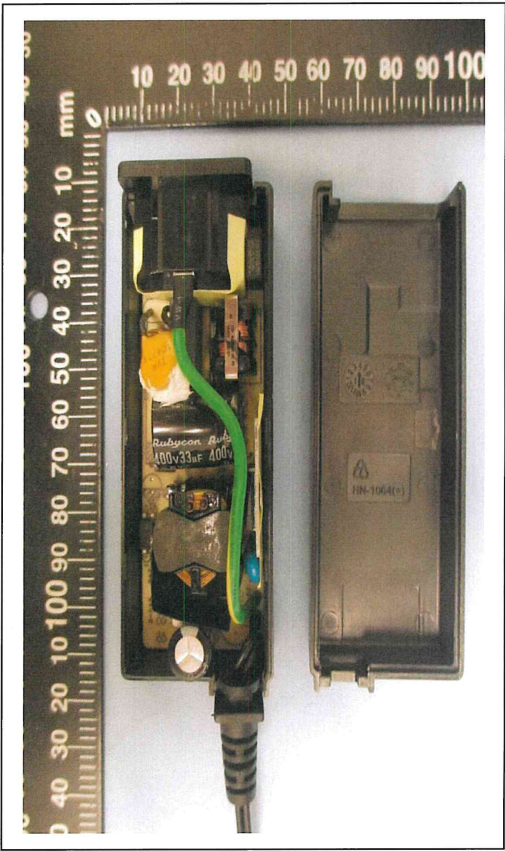


기술문서붙임자료

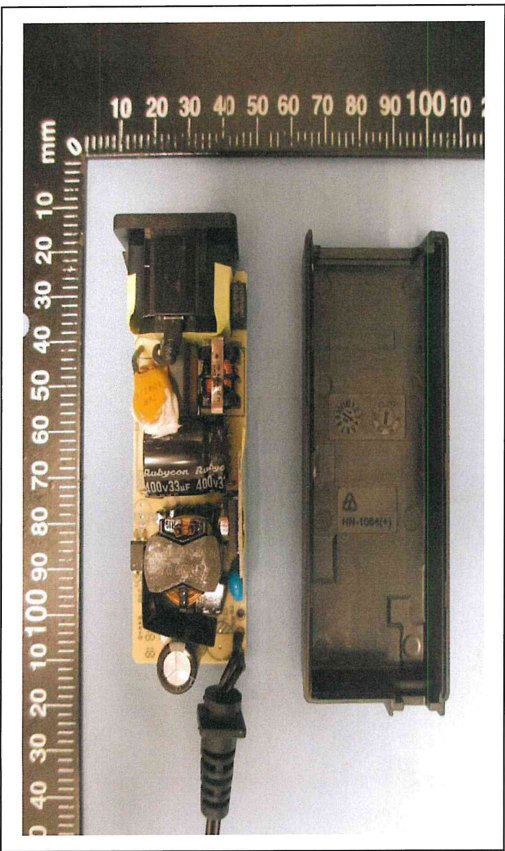
안전인증번호 : HU10142-19206A

접수번호 : 20191128-0037

No.5 Internal View



No.6 Internal View

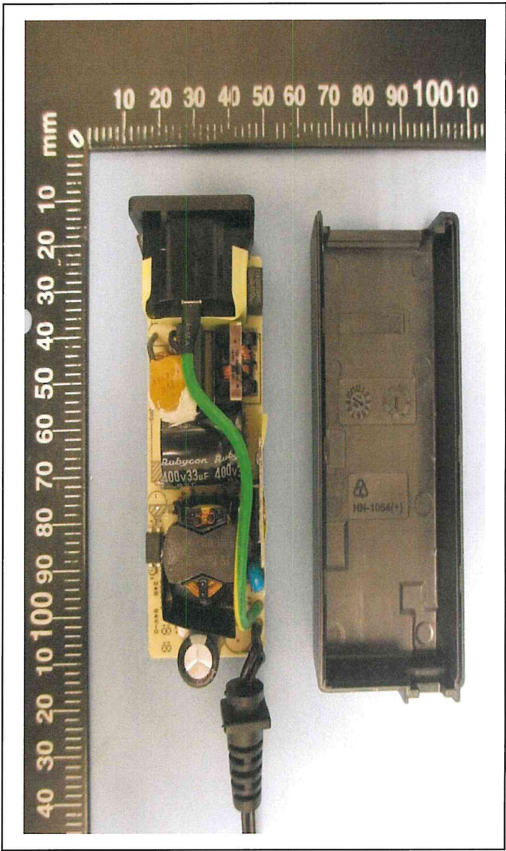


기술문서붙임자료

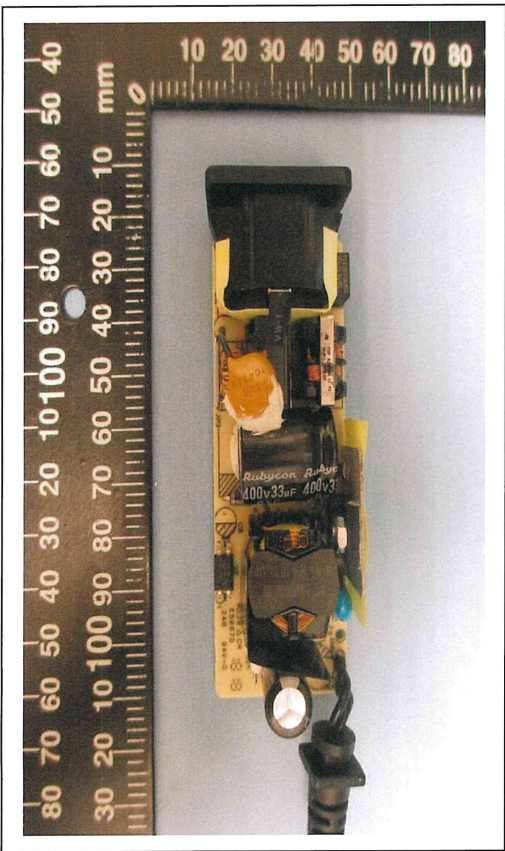
안전인증번호 : HU10142-19206A

접수번호 : 20191128-0037

No.7 Internal View



No.8 PCB View

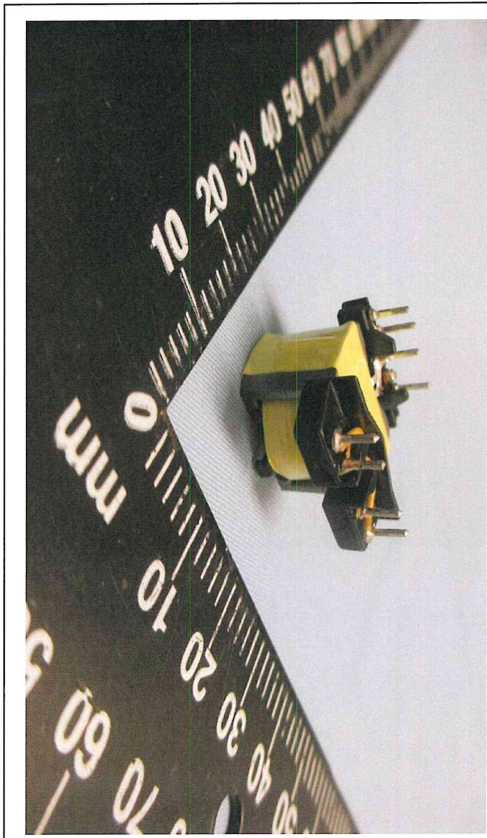


기술문서붙임자료

안전인증번호 : HU10142-19206A

접수번호 : 20191128-0037

No. 11 Transformer



No. 12 Transformer

