



安規測試報告

料號 :
Model Name : FSP075-DHAN3,FSP075-DHBN3,FSP084-DHAN3,FSP084-DHBN3,PUP75N3-12,PUP75N3S-12,PUP84N3-12,PUPN3S-12
版次 : 01
文件編號 : SFR-00001267
作者 : jillyuan/元玉珍(FSP)
Model No/Type : FSP075-DHAN3,FSP075-DHBN3,FSP084-DHAN3,FSP084-DHBN3,PUP75N3-12,PUP75N3S-12,PUP84N3-12,PUPN3S-12
SFA NO. : SFA18011023
Trade mark : FSP,Protek
安規種類 : UL/cUL 62368
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UL TEST REPORT AND PROCEDURE	
Standard:	UL 62368-1, 2nd Edition, 2014-12-01 (Audio/video, Information and Communication Technology Equipment - Part 1: Safety Requirements) CSA C22.2 No. 62368-1-14, 2nd Edition, 2014-12 (Audio/video, Information and Communication Technology Equipment - Part 1: Safety Requirements)
Certification Type:	Listing
CCN:	QQJQ, QQJQ7 Power Supplies for use in Audio/Video, Information and Communication Technology Equipment)
Complementary Certification CCN	N/A
Product:	Switching Power Adapter
Model:	(1) FSP075-DHAN3, PUP75N3-12yyyyy, FSP075-DHBN3, PUP75N3S-12yyyyy (2) FSP084-DHAN3, PUP84N3-12yyyyy, FSP084-DHBN3, PUP84N3S-12yyyyy where "y"=0-9, A-Z, hyphen or blank
Rating:	(1) FSP075-DHAN3, PUP75N3-12yyyyy, FSP075-DHBN3, PUP75N3S-12yyyyy I/P: 100-240Vac, 50-60Hz, 1.2A O/P: 12Vdc, 6.25A (2) FSP084-DHAN3, PUP84N3-12yyyyy, FSP084-DHBN3, PUP84N3S-12yyyyy I/P: 100-240Vac, 50-60Hz, 1.3A O/P: 12Vdc, 7.0A
Applicant Name and Address:	FSP GROUP INC 22 Jianguo E Rd Taoyuan City, 330 TW

This is to certify that representative samples of the products covered by this Test Report have been investigated in accordance with the above referenced Standards. The products have been found to comply with the requirements covering the category and the products are judged to be eligible for Follow-Up Service under the indicated Test Procedure. The manufacturer is authorized to use the UL Mark on such products which comply with this Test Report and any other applicable requirements of UL LLC ('UL') in accordance with the Follow-Up Service Agreement. Only those products which properly bear the UL Mark are considered as being covered by UL's Follow-Up Service under the indicated Test Procedure.

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Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL

Prepared by: Lance Chou

Reviewed by: Patrick Tsai

Supporting Documentation

The following documents located at the beginning of this Procedure supplement the requirements of this Test Report:

- A. Authorization - The Authorization page may include additional Factory Identification Code markings.
- B. Generic Inspection Instructions -
- Part AC details important information which may be applicable to products covered by this Procedure. Products described in this Test Report must comply with any applicable items listed unless otherwise stated in the body of this Test Report
 - Part AE details any requirements which may be applicable to all products covered by this Procedure. Products described in this Test Report must comply with any applicable items listed unless otherwise stated in the body of each Test Report
- C. Listing Mark/Recognized Component Mark Data Page - details the requirements for the UL Certification Mark which is not controlled by the technical standard used to investigate these products. Products are permitted to bear only the Certification Mark(s) corresponding to the countries for which it is certified, as indicated in each Test Report.

Product Description

The equipment under test (EUT) is a Switching Power Adapter for use with audio/video, information and communication technology equipment.

Model Differences

See below in details.

FSP	FSP075-DHAN3	FSP075-DHBN3	FSP084-DHAN3	FSP084-DHBN3
Protek	PUP75N3-12yyyyy	PUP75N3S-12yyyyy	PUP84N3-12yyyyy	PUP84N3S-12yyyyy
	"y"=0-9, A-Z, hyphen or blank			
AC input:	100-240V~,1.2A,50-60Hz		100-240V~,1.3A,50-60Hz	
DC output	12Vdc, 6.25A MAX		12Vdc, 7.0A MAX	
AC Inlet	C14	C6	C14	C6
Current Resistors (R15,R16,R17,R18)	Min.1 ohm Min.1/4W		Min. 0.82 ohm Min.1/4W	
Main Mosfet (Q1)	Min.7.2A, Min.500V		Min .12A, Min 500V,	
Main Mosfet (Q2)	Min 8A, Min 650V		Min 9A, Min 650V	
Main Cap. (EC1)	68uF~100uF Min 450V		100uF Min 450V	
Secondary Cap. (EC6)	NC		Provided	

Test Item Particulars (NOT FOR FIELD REPRESENTATIVE'S USE)

Classification of installation and use by :

- ☒ Ordinary person ☐ Instructed person
☐ Skilled person

Supply Connection :

- ☒ pluggable equipment ☒ type A ☐ type B
☐ permanent connection
☒ detachable power supply cord
☐ non-detachable power supply cord
☐ not directly connected to the mains

Equipment mobility :

- ☒ movable ☐ hand-held ☒ transportable
☐ stationary ☐ for building-in ☐ direct plug-in
☐ rack-mounting ☐ wall-mounted

Over voltage category (OVC) :

- ☐ OVC I ☒ OVC II ☐ OVC III ☐ OVC IV

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Fundamental Frequency :	☐ other: _____ ☐ 50/60 Hz ☐ 50 Hz ☐ 60 Hz ☒ other_50-60_Hz ☐ N/A
Class of equipment :	☒ Class I ☐ Class II ☐ Class III ☐ Not classified ☐ Class II with functional earthing
Access location :	☐ restricted access location ☒ N/A
Pollution degree (PD) :	☐ PD 1 ☒ PD 2 ☐ PD 3
IP protection class :	☒ IP X0 ☐ IP _____
Tested for IT power systems :	☐ Yes ☒ No
IT testing, phase-phase voltage (V) :	☐ _____ ☒ N/A
Altitude during operation (m) :	☐ Up to 2,000 ☒ Up to 5,000
Altitude of test laboratory (m) :	☒ Less than 2,000 ☐ Approximately _____
Mass of equipment (kg) :	Approx. 0.444kg max.

Technical Consideration (NOT FOR FIELD REPRESENTATIVE'S USE)

- The product was submitted and evaluated for use at the maximum ambient temperature (Tma) permitted by the manufacturer's specification of: 40 degree C
- Considered current rating of protective device as part of the building installation (A): 20A
- Mains supply tolerance (%) or absolute mains supply values: AC mains (+10%, -10%)
- The product is intended for use on the following power systems: TN
- The equipment disconnect device is considered to be: Appliance Inlet
- The product was investigated to the following additional standards: The equipment is operated up to 5000m :1.48 linear interpolation between this value was considered)
- The following are available from the Applicant upon request: Installation (Safety) Instructions / Manual
- The following circuit locations (with circuit/schematic designation) were investigated as a limited power source (LPS) : Output only for model FSP075-DHAN3, PUP75N3-12yyyyy, FSP075-DHBN3, PUP75N3S-12yyyyy, "y"=0-9, A-Z, hyphen or blank

Engineering Conditions of Acceptability (NOT FOR FIELD REPRESENTATIVE'S USE)

N/A

Additional Information

N/A

Additional Standard

The product fulfils the requirements of:

N/A

Markings, instructions and instructional safeguards

Clause Title	Marking or Instruction Details	
	English	French
Equipment identification marking – Manufacturer identification	Listee's or Recognized company's name, Trade Name, Trademark or File Number	
Equipment identification marking – model identification	Model Number	
Equipment rating marking –ratings	Input Ratings (voltage, frequency/dc, current/power)	
Fuses - Rating	F1 T3.15AL/250V located on or adjacent to fuse or fuseholder	
Output marking	The d.c. output shall be market with voltage rating, current rating and the polarity.	
LPS Marking (Optional)	Marked with "LPS" or "Limited Power Source" on unit. (Only for model FSP075-DHAN3, PUP75N3-12yyyyy , FSP075-DHBN3, PUP75N3S-12yyyyy, "y"=0-9, A-Z, hyphen or blank)	

Special Instructions to UL Representative

For transformer test - When the tests are conducted at other location, inspect test record and specification sheet provided by the component manufacturer. Verify the specification sheet indicates 100% routine test specified in Production-Line Testing Requirements be conducted at the component manufacturer.

Production-Line Testing Requirements

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Electric Strength Test Special Constructions - Refer to Generic Inspection Instructions, Part AC for further information.

Model	Component	Removable Parts	Test probe location	V rms	V dc	Test Time, s
All models	T1	N/A	Primary to Secondary	2829	4000	1

Earthing Continuity Test Exemptions - This test is not required for the following models:

Electric Strength Test Exemptions - This test is not required for the following models:

Electric Strength Test Component Exemptions - The following solid-state components may be disconnected from the remainder of the circuitry during the performance of this test:

N/A

Sample and Test Specifics for Follow-Up Tests at UL

Model	Component	Material	Test	Sample(s)	Test Specifics
N/A	--	--	--	--	--

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4.1.2	TABLE: list of critical components					Pass
Object/part or Description	Manufacturer/ trademark	type/model	technical data	Product Category CCN(s)	Required Marks of Conformity	Supplement ID
Output Cord for FSP075-DHAN3, PUP75N3-12yyyyy, FSP075-DHBN3, PUP75N3S-12yyyyy	Interchangeable	Interchangeable	Non-detachable, rated min. 80 degree C, min. 30 V and max. 3.05 m long, marked VW-1 or FT-1.	AVLV2	UL	
Output Cord for FSP084-DHAN3, PUP84N3-12yyyyy, FSP084-DHBN3, PUP84N3S-12yyyyy	Interchangeable	Interchangeable	Non-detachable, rated min. 80 degree C, min. 30 V and max. 3.05 m long, marked VW-1 or FT-1, external use	AVLV2	UL	
Insulation Tubing/Sleeving	Interchangeable	Interchangeable	FEP, PTFE, PVC, TFE, neoprene, polyimide or marked VW-1, rated Min. 125 degree C, Min. 300 V.	UZFT2, YDPU2, YDTU2	UL	
Internal Plastic Part Materials	Interchangeable	Interchangeable	Rated Min. V-2.	QMFZ2	UL	
Adhesive Glues	Interchangeable	Interchangeable	Rated Min. V-2, Min. 105 degree C, provided for fixing components and wirings.	QMFZ2	UL	Illustrations ID14 Illustrations ID15
Label	Interchangeable	Interchangeable	Rated Min. 80 degree C if maximum surface temperature not specified.	PGDQ2, PGJ12	UL	
Output Cord Strain Relief	Interchangeable	Interchangeable	PVC bushing integrally molded on output cord	QMFZ2	UL	Illustrations ID02
Top Plastic Enclosure	SABIC INNOVATIVE PLASTICS US LLC	945	Two pieces construction, secured together by ultrasonic welding, rated V-0 or better, Min. 2.8 mm thickness, 120 degree C,	QMFZ2	UL	Illustrations ID01
Top Plastic Enclosure (Alternate)	LOTTE ADVANCED MATERIALS CO LTD	HN-1064	Two pieces construction, secured together by ultrasonic welding, rated V-0 or better, Min. 2.8 mm thickness, 130 degree C,	QMFZ2	UL	
Bottom Plastic Enclosure	SABIC INNOVATIVE PLASTICS US LLC	945	Two pieces construction, secured together by ultrasonic	QMFZ2	UL	Illustrations ID01

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			welding, rated V-0 or better, Min. 2.5 mm thickness, 120 degree C.			
Bottom Plastic Enclosure (Alternate)	LOTTE ADVANCED MATERIALS CO LTD	HN-1064	Two pieces construction, secured together by ultrasonic welding, rated V-0 or better, Min. 2.5 mm thickness, 130 degree C.	QMFZ2	UL	
Printed Wiring Board	Interchangeable	Interchangeable	Rated V-1 or better, Min. 130 degree C.	ZPMV2	UL	
Appliance Inlet (CN1)(C14) for model FSP075-DHAN3, PUP75N3-12yyyyy, FSP084-DHAN3, PUP84N3-12yyyyy	Solteam Electronics Co. Ltd.	ST-01	Rated 250 V ac, 10 A, temperature on body of the component shall not exceed 70 degree C.	AXUT2	UL	
Appliance Inlet (CN1)(C14) (Alternate) for model FSP075-DHAN3, PUP75N3-12yyyyy, FSP084-DHAN3, PUP84N3-12yyyyy	Inalways Corporation	0714 series	Rated 250 V ac, 10 A, temperature on body of the component shall not exceed 70 degree C.	AXUT2	UL	
Appliance Inlet (CN1)(C14) (Alternate) for model FSP075-DHAN3, PUP75N3-12yyyyy, FSP084-DHAN3, PUP84N3-12yyyyy	Canal Electronic Co., Ltd.	KS-101, KS-201, KS-202, KS-303, KS-406	Rated 250 V ac, 10 A, temperature on body of the component shall not exceed 70 degree C.	AXUT2	UL	
Appliance Inlet (CN1)(C14) (Alternate) for model FSP075-DHAN3, PUP75N3-12yyyyy, FSP084-DHAN3, PUP84N3-12yyyyy	Rich Bay Co., Ltd.	R-301SN	Rated 250 V ac, 10 A, temperature on body of the component shall not exceed 70 degree C.	AXUT2	UL	
Appliance Inlet (CN1)(C14) (Alternate) for model FSP075-	HCR ELECTRONICS CO., LTD.	SK01	Rated 250 V ac, 10 A, temperature on body of the component shall not exceed	AXUT2	UL	

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DHAN3, PUP75N3-12yyyyy, FSP084-DHAN3, PUP84N3-12yyyyy			70 degree C.			
Appliance Inlet (CN1)(C14) (Alternate) for model FSP075-DHAN3, PUP75N3-12yyyyy, FSP084-DHAN3, PUP84N3-12yyyyy	Rong Feng Industrial Co., Ltd.	SS-120, SS-7B	Rated 250 V ac, 10 A, temperature on body of the component shall not exceed 70 degree C.	AXUT2	UL	
Appliance Inlet (CN1)(C14) (Alternate) for model FSP075-DHAN3, PUP75N3-12yyyyy, FSP084-DHAN3, PUP84N3-12yyyyy	Zhe Jiang Bei Er Jia Electronic Co.. Ltd.	ST-A01-001L, ST-A01-002L, ST-A01-003J, ST-A01-003K	Rated 250 V ac, 10 A, temperature on body of the component shall not exceed 70 degree C.	AXUT2	UL	
Appliance Inlet (CN1)(C14) (Alternate) for model FSP075-DHAN3, PUP75N3-12yyyyy, FSP084-DHAN3, PUP84N3-12yyyyy	Tecx-Unions Technology Corp.	TU-301-A, TU-301-AP, TU-301-AP-A, TU-301-S, TU-301-SP	Rated 250 V ac, 10 A, temperature on body of the component shall not exceed 70 degree C.	AXUT2	UL	
Appliance Inlet (CN1)(C6) for model FSP075-DHBN3, PUP75N3S-12yyyyy, FSP084-DHBN3, PUP84N3S-12yyyyy	Canal Electronic Co., Ltd.	KC-101-1, KC-101-2, KC-101-3, KC-101-4	Rated 250 V ac, 2.5A, temperature on body of the component shall not exceed 70 degree C.	AXUT2	UL	
Appliance Inlet (CN1)(C6) (Alternate) for model FSP075-DHBN3, PUP75N3S-12yyyyy, FSP084-DHBN3, PUP84N3S-12yyyyy	Rich Bay Co., Ltd.	R-30790	Rated 250 V ac, 2.5A, temperature on body of the component shall not exceed 70 degree C.	AXUT2	UL	
Appliance Inlet (CN1)(C6) (Alternate) for model FSP075-	Rong Feng Industrial Co., Ltd.	RF-190	Rated 250 V ac, 2.5A, temperature on body of the component shall not exceed	AXUT2	UL	

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DHBN3, PUP75N3S-12yyyyy, FSP084-DHBN3, PUP84N3S-12yyyyy			70 degree C.			
Appliance Inlet (CN1)(C6) (Alternate) for model FSP075-DHBN3, PUP75N3S-12yyyyy, FSP084-DHBN3, PUP84N3S-12yyyyy	Solteam Electronics Co. Ltd.	ST-03	Rated 250 V ac, 2.5A, temperature on body of the component shall not exceed 70 degree C.	AXUT2	UL	
Appliance Inlet (CN1)(C6) (Alternate) for model FSP075-DHBN3, PUP75N3S-12yyyyy, FSP084-DHBN3, PUP84N3S-12yyyyy	Tecx-Unions Technology Corporation	TU-333	Rated 250 V ac, 2.5A, temperature on body of the component shall not exceed 70 degree C.	AXUT2	UL	
Appliance Inlet (CN1)(C6) (Alternate) for model FSP075-DHBN3, PUP75N3S-12yyyyy, FSP084-DHBN3, PUP84N3S-12yyyyy	HCR Electronics Co., Ltd.	SK03	Rated 250 V ac, 2.5A, temperature on body of the component shall not exceed 70 degree C.	AXUT2	UL	
Appliance Inlet (CN1)(C6) (Alternate) for model FSP075-DHBN3, PUP75N3S-12yyyyy, FSP084-DHBN3, PUP84N3S-12yyyyy	Inalways Corporation	0724	Rated 250 V ac, 2.5A, temperature on body of the component shall not exceed 70 degree C.	AXUT2	UL	
Appliance Inlet (CN1)(C6) (Alternate) for model FSP075-DHBN3, PUP75N3S-12yyyyy, FSP084-DHBN3, PUP84N3S-12yyyyy	ZHE JIANG BEI ER JIA ELECTRONIC CO LTD	ST-A04-001, ST-A04-002	Rated 250 V ac, 2.5A, temperature on body of the component shall not exceed 70 degree C.	AXUT2	UL	
Fuse (F1)	Interchangeable	Interchangeable	250 V ac, 3.15A, time delay.	JDYX	UL	

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Fuse (F1)	CONQUER ELECTRONICS CO LTD	MST	250Vac, 3.15A, time delay.	JDYX2	UL	
Fuse (F1) (Alternate)	Littlefuse, Inc. Wickmann Werke	392	250 V ac, 3.15A, time delay.	JDYX2	UL	
Fuse (F1) (Alternate)	Ever Island Electric Co., Ltd. and Walter Electric	2010	250 V ac, 3.15A, time delay.	JDYX2	UL	
Fuse (F1) (Alternate)	Bel Fuse Ltd.	RST-series	250 V ac, 3.15A, time delay.	JDYX2	UL	
Fuse (F1) (Alternate)	Cooper Bussmann L L C	SS-5	250Vac, 3.15A, time delay.	JDYX2	UL	
Varistor(V1) (Optional)	Thinking Electronic Industrial Co., Ltd	TVR10471-D, TVR10471-V, TVR14471, TVR14471-D	300Vac, 385Vdc (Flame class of body coating complied with V-0)	VZCA2	UL	
Varistor(V1) (Optional) (Alternate)	Thinking Electronic Industrial Co., Ltd	TVR10561-D, TVR10561-V, TVR14561, TVR14561-D	350Vac, 450Vdc (Flame class of body coating complied with V-0)	VZCA2	UL	
Varistor(V1) (Optional) (Alternate)	Thinking Electronic Industrial Co., Ltd	TVR10621-D, TVR10621-V, TVR14621, TVR14621-D	395Vac, 510Vdc(Flame class of body coating complied with V-0)	VZCA2	UL	
Varistor(V1) (Optional) (Alternate)	Thinking Electronic Industrial Co., Ltd	TVR14681, TVR14681-D, TVR10681-D, TVR10681-V	420Vac, 560Vdc (Flame class of body coating complied with V-0)	VZCA2	UL	
Varistor(V1) (Optional) (Alternate)	Thinking Electronic Industrial Co., Ltd	TVR14751, TVR14751-D, TVR10751-D, TVR10751-V	465Vac, 615Vdc (Flame class of body coating complied with V-0)	VZCA2	UL	
Varistor(V1) (Optional) (Alternate)	Guangxi New Future Information Industry Co., Ltd.	10D471K, 14D471K, 20D471K	300Vac, 385Vdc(Flame class of body coating complied with V-0)	VZCA2	UL	
Varistor(V1) (Optional) (Alternate)	Guangxi New Future Information Industry Co., Ltd.	10D511K, 14D511K, 20D511K	320Vac, 415Vdc(Flame class of body coating complied with V-0)	VZCA2	UL	
Varistor(V1) (Optional) (Alternate)	Guangxi New Future Information Industry Co., Ltd.	10D561K, 14D561K, 20D561K	350Vac, 460Vdc (Flame class of body coating complied with V-0)	VZCA2	UL	

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Varistor(V1) (Optional) (Alternate)	Guangxi New Future Information Industry Co., Ltd.	10D621K, 14D621K, 20D621K	385Vac, 505Vdc (Flame class of body coating complied with V-0)	VZCA2	UL	
Varistor(V1) (Optional) (Alternate)	Guangxi New Future Information Industry Co., Ltd.	10D681K, 14D681K, 20K681K	420Vac, 560Vdc(Flame class of body coating complied with V-0)	VZCA2	UL	
Varistor(V1) (Optional) (Alternate)	Guangxi New Future Information Industry Co., Ltd.	14D751K	460Vac, 615Vdc(Flame class of body coating complied with V-0)	VZCA2	UL	
Varistor(V1) (Optional) (Alternate)	EPCOS OHG(EN) EPCOS (ZHUHAI FTZ) CO LTD(US)	S10K300, S10K300E2, S10K300E2K1, S14K300, S14K300E2, S14K300E2K1, S20K300, S20K300E2, S20K300E3K1	300Vac, 385Vdc (Flame class of body coating complied with V-0)	VZCA2	UL	
Varistor(V1) (Optional) (Alternate)	EPCOS OHG(EN) EPCOS (ZHUHAI FTZ) CO LTD(US)	S10K320, S10K320E2, S10K320E2K1, S14K320, S14K320E2, S14K320E2K1, S20K320, S20K320E2, S20K320E3K1	320Vac, 420Vdc (Flame class of body coating complied with V-0)	VZCA2	UL	
Varistor(V1) (Optional) (Alternate)	EPCOS OHG(EN) EPCOS (ZHUHAI FTZ) CO LTD(US)	S10K350E2K1, S14K350E2K1, S20K350E3K1	350Vac, 460Vdc (Flame class of body coating complied with V-0)	VZCA2	UL	
Varistor(V1) (Optional) (Alternate)	EPCOS OHG(EN) EPCOS (ZHUHAI FTZ) CO LTD(US)	S10K385, S10K385E2, S10K385E2K1, S14K385, S14K385E2, S14K385E2K1, S20K385, S20K385E2, S20K385E3K1	385Vac, 505Vdc(Flame class of body coating complied with V-0)	VZCA2	UL	
Varistor(V1) (Optional)	EPCOS OHG(EN)	S10K420,	420Vac, 560Vdc(Flame class	VZCA2	UL	

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(Alternate)	EPCOS (ZHUHAI FTZ) CO LTD(US)	S10K420E2, S10K420E2K1, S14K420, S14K420E2, S14K420E2K1, S20K420, S20K420E2, S20K420E3K1	of body coating complied with V-0)			
Varistor(V1) (Optional) (Alternate)	EPCOS OHG(EN) EPCOS (ZHUHAI FTZ) CO LTD(US)	S10K440, S14K440, S20K440	440Vac, 585Vdc(Flame class of body coating complied with V-0)	VZCA2	UL	
Varistor(V1) (Optional) (Alternate)	EPCOS OHG(EN) EPCOS (ZHUHAI FTZ) CO LTD(US)	S10K460, S10K460E2, S10K460E2K1, S14K460, S14K460E2, S14K460E2K1, S20K460, S20K460E2, S20K460E3K1	460Vac, 615Vdc (Flame class of body coating complied with V-0)	VZCA2	UL	
X-Capacitor (CX1, CX2) (Optional)	ISKRA SISTEMI, D D	MKP	Rated Max. 0.47uF, Min. 275 Vac, Min. 100°C, classX1orX2.(Complied with IEC60384-14).	FOWX2	UL, VDE	
X-Capacitor (CX1,CX2) (Optional) (Alternate)	CARLI ELECTRONICS CO LTD	MPX	Rated Max. 0.47uF, Min. 275 Vac, Min. 100°C, classX1orX2.(Complied with IEC60384-14).	FOWX2	UL, VDE	
X-Capacitor (CX1,CX2) (Optional) (Alternate)	ZHUHAI SUNG HO ELECTRONICS CO LTD	CMPP	Rated Max. 0.47uF, Min. 275 Vac, Min. 100°C, classX1orX2.(Complied with IEC60384-14).	FOWX2	UL, VDE	
X-Capacitor (CX1,CX2) (Optional) (Alternate)	ULTRA TECH XIPHI ENTERPRISE CO LTD	HQX	Rated Max. 0.47uF, Min. 275 Vac, Min. 100°C, classX1orX2.(Complied with IEC60384-14).	FOWX2	UL, VDE	
X-Capacitor (CX1,CX2) (Optional) (Alternate)	Okaya Electronic Industrial Co., Ltd.	LE(-*)	Rated Max. 0.47uF, Min. 275 Vac, Min. 100°C, classX1orX2.(Complied with IEC60384-14).	FOWX2	UL, VDE	

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X-Capacitor (CX1,CX2) (Optional) (Alternate)	Iskra Sistemi, D D	KNB 1530	Rated Max. 0.47uF, Min. 275 Vac, Min. 100°C, classX1orX2.(Complied with IEC60384-14).	FOWX2	UL, VDE	
X-Capacitor (CX1,CX2) (Optional) (Alternate)	Iskra Sistemi, D D	KNB 1560, KNB 1562, KNB 1563	Rated Max. 0.47uF, Min. 275 Vac, Min. 100°C, classX1orX2.(Complied with IEC60384-14).	FOWX2	UL, VDE	
X-Capacitor (CX1,CX2) (Optional) (Alternate)	Shiny Space Enterprise Co., Ltd.	SX1	Rated Max. 0.47uF, Min. 275 Vac, Min. 100°C, classX1orX2.(Complied with IEC60384-14).	FOWX2	UL, VDE	
X-Capacitor (CX1,CX2) (Optional) (Alternate)	Chiefcon Electronics Co., Ltd.	CKX	Rated Max. 0.47uF, Min. 275 Vac, Min. 100°C, classX1orX2.(Complied with IEC60384-14).	FOWX2	UL, VDE	
X-Capacitor (CX1,CX2) (Optional) (Alternate)	Kemet Electronics Italia SRL	R.49	Rated Max. 0.47uF, Min. 275 Vac, Min. 100°C, classX1orX2.(Complied with IEC60384-14).	FOWX2	UL, VDE	
X-Capacitor (CX1,CX2) (Optional) (Alternate)	Cheng Tung Industrial Co., Ltd.	CTX	Rated Max. 0.47uF, Min. 275 Vac, Min. 100°C, classX1orX2.(Complied with IEC60384-14).	FOWX2	UL, VDE	
X-Capacitor (CX1,CX2) (Optional) (Alternate)	Pilkor Electronics Co., Ltd.	PCX2 337	Rated Max. 0.47uF, Min. 275 Vac, Min. 100°C, classX1orX2.(Complied with IEC60384-14).	FOWX2	UL, VDE	
Current Resistors (R15,R16,R17,R18) for FSP075-DHAN3, PUP75N3-12yyyyy, FSP075-DHBN3, PUP75N3S-12yyyyy	Interchangeable	Interchangeable	Min. 1ohm, Min. 1/4W	--	--	
Current Resistors (R15,R16,R17,R18) for FSP084-DHAN3, PUP84N3-12yyyyy, FSP084-DHBN3, PUP84N3S-12yyyyy	Interchangeable	Interchangeable	Min. 0.82ohm, Min. 1/4W	--	--	

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Line Choke (LF1) (Optional)	FSP / SPI	8LM02699	Min rated 130 degree C.	--	--	Illustrations ID03
Core	--	--	Ferrite, toroidal type, overall 9.5mm by 5.0mm by 5.0mm thick	--	--	
Coil	Interchangeable	Interchangeable	Rated min. 130 degree C.	OBMW2	UL	
Triple wire	Interchangeable	Interchangeable	Rated min. 130 degree C.	OBJT2	UL	
Varnish (Optional)	Interchangeable	Interchangeable	Rated Min. 130 degree C.	OBOR2	UL	
Line Choke (LF2) (Optional)	FSP / SPI	8LE00644	Min rated 130 degree C.	--	--	Illustrations ID04
Core	--	--	Ferrite, toroidal type, overall 15.6mm by 15.6mm by 6.0mm thick	--	--	
Coil	Interchangeable	Interchangeable	Rated min. 130 degree C.	OBMW2	UL	
Bobbin	Interchangeable	Interchangeable	Mechanical support only. Phenolic, rated V-0, 150 degree C, min. 0.16 mm thick.	QMFZ2	UL	
Varnish (Optional)	Interchangeable	Interchangeable	Rated Min. 130 degree C.	OBOR2	UL	
Line Choke (LF3) (Optional)	FSP / SPI	8TI02007	Min rated 130 degree C.	--	--	Illustrations ID05
Core	--	--	Ferrite, toroidal type, overall 21.2mm by 12.5mm by 11mm thick	--	--	
Bobbin	Interchangeable	Interchangeable	Mechanical support only. Phenolic, rated V-0, 150 degree C, min. 0.51 mm thick.	QMFZ2	UL	
Coil	Interchangeable	Interchangeable	Rated min. 130 degree C.	OBMW2	UL	
Insulating tape	Interchangeable	Interchangeable	Rated min. 130 degree C	OANZ2	UL	
Varnish (Optional)	Interchangeable	Interchangeable	Rated Min. 130 degree C.	OBOR2	UL	
Line Choke (L1) (Optional)	FSP / SPI	8LM03273	Min rated 130 degree C.	--	--	Illustrations ID06
Core	--	--	Ferrite, toroidal type, overall 17.5mm by 9.4mm by 6.35mm thick	--	--	
Coil	Interchangeable	Interchangeable	Rated min. 130 degree C.	OBMW2	UL	
Insulating tape	Interchangeable	Interchangeable	Rated min. 130 degree C	OANZ2	UL	
Varnish (Optional)	Interchangeable	Interchangeable	Rated Min. 130 degree C.	OBOR2	UL	
Bridge Rectifier (BD1)	Interchangeable	Interchangeable	Rated Min. 800 V, Min. 4 A.	--	--	
Electrolytic Capacitor (EC1) for FSP075-	Interchangeable	Interchangeable	Rated Min. 450 V, Min. 105 degree C, 68uF-100uF	--	--	

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DHAN3, PUP75N3-12yyyyy, FSP075-DHBN3, PUP75N3S-12yyyyy						
Electrolytic Capacitor (EC1) for FSP084-DHAN3, PUP84N3-12yyyyy, FSP084-DHBN3, PUP84N3S-12yyyyy	Interchangeable	Interchangeable	Rated Min.450 V, Min. 105 degree C, 100uF	--	--	
Transformer (T1)	FSP / SPI	8TV00428	--	--	--	Illustrations ID07
Insulation System	FSP Group Inc.	Designated GH-130	Class B.	OBJY2	UL	
Bobbin	SUMITOMO BAKELITE CO LTD	PM-9630	Mechanical support only. Phenolic, rated V-0, 150 degree C, Min. 0.4mm thick.	QMFZ2	UL	
Bobbin (Alternate)	CHANG CHUN PLASTICS CO LTD	T200HF	Mechanical support only. Phenolic, rated V-0, 150 degree C, Min. 0.4mm thick	QMFZ2	UL	
Bobbin (Alternate)	CHANG CHUN PLASTICS CO LTD	T375J	Mechanical support only. Phenolic, rated V-0, 150 degree C, Min. 0.4mm thick	QMFZ2	UL	
Core	--	--	Ferrite, toroidal type, overall 33.2 by 23.7mm by 18.8mm thick	--	--	
Coil	Interchangeable	Interchangeable	Rated Min. 130 degree C.	OBMW2	UL	
Insulation tape	SYMBIO INC	35660Y	Polyester Tape, rated 130 degree C.	OANZ2	UL	
Insulation tape (Alternate)	3M COMPANY ELECTRICAL MARKETS DIV	1350F-1	Polyester Tape, rated 130 degree C.	OANZ2	UL	
Triple Wire	GREAT LEOFLON INDUSTRIAL CO., LTD.	TRW(B)	Rated Min. 130 degree C.	OBJT2	UL	
Varnish (Optional)	JOHN C DOLPH CO	BC-346A	Rated Min. 130 degree C.	OBOR2	UL	

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MOSFET for T1 (Q1) (For models FSP075-DHAN3, FSP075-DHBN3, PUP75N3-12yyyyy and PUP75N3S-12yyyyy)	Interchangeable	Interchangeable	Rated Min. 500 V, Min. 7.2A.	--	--	
MOSFET for T1 (Q1) (For models FSP084-DHAN3, FSP084-DHBN3, PUP84N3-12yyyyy and PUP84N3S-12yyyyy)	Interchangeable	Interchangeable	Rated Min. 500 V, Min. 12A.	--	--	
MOSFET for T1 (Q2) (For models FSP075-DHAN3, FSP075-DHBN3, PUP75N3-12yyyyy and PUP75N3S-12yyyyy)	Interchangeable	Interchangeable	Rated Min. 650 V, Min. 8A.			
MOSFET for T1 (Q2) (For models FSP084-DHAN3, FSP084-DHBN3, PUP84N3-12yyyyy and PUP84N3S-12yyyyy)	Interchangeable	Interchangeable	Rated Min. 650 V, Min. 9A.	--	--	
Photo Coupler(U2)	Lite-On Technology Corp.	LTV-817, LTV-817M	Each rated 5300Vac isolation, max. operating temperature 115 degree C.	FPQU2	UL	
Photo Coupler(U2) (Alternate)	Everlight Electronics Co., Ltd.	EL1018	Each rated 3750Vac isolation, max. operating temperature 110 degree C.	FPQU2	UL	
Photo Coupler(U2) (Alternate)	Everlight Electronics Co., Ltd.	EL1019	Each rated 3750Vac isolation, max. operating temperature 115 degree C.	FPQU2	UL	
Photo Coupler(U2) (Alternate)	Cosmo Electronics Corp	KT10XX (XX=00-ZZ)	Each rated 5000Vac isolation, max. operating temperature 115degree C.	FPQU2	UL	
Photo Coupler(U2) (Alternate)	Lite-On Technology	LTV-1008	Each rated 5000Vac isolation, max. operating temperature	FPQU2	UL	

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	Corporation		115 degree C.			
Photo Coupler(U2) (Alternate)	Vishay Semiconductor Gmbh	TCET1103 TCET1108, TCET1109 TCET1103G, TCET1108G, TCET1109G, TCET1104G TCET1114G	Rated 5000Vac isolation, Max. operating temperature 110 degree C.	FPQU2	UL	
Photo Coupler(U2) (Alternate)	Vishay Infrared Components Inc	SFH617A-	Rated 5000Vac isolation, Max. operating temperature 115 degree C.	FPQU2	UL	
Photo Coupler(U2) (Alternate)	Sharp Corp. Electronic Components Group.	PC123	Rated 5000Vac isolation, Max. operating temperature 110 degree C.	FPQU2	UL	
Photo Coupler(U2) (Alternate)	Cosmo Electronics Corp.	K1010	Rated 5000Vac isolation, Max. operating temperature 110 degree C.	FPQU2	UL	
Photo Coupler(U2) (Alternate)	Everlight Electronics Co., Ltd.	EL817	Rated 5000Vac isolation, Max. operating temperature 110 degree C.	FPQU2	UL	
Photo Coupler(U2) (Alternate)	China Resources Semiconductor (ShenZhen) Ltd.	PC817	Rated 5000Vac isolation, Max. operating temperature 110 degree C.	FPQU2	UL	
Bridging-Capacitor (CY1) (Y1 only) (Optional)	WALSIN TECHNOLOGY CORP	AH	Min 250 V ac, Max 1500 pF, Min 125 degree C. Rated class Y1. Comply with IEC60384-14.	FOWX2	UL, VDE	
Bridging-Capacitor (CY1) (Y1 only) (Optional) (Atternate)	TDK-EPC CORPORATION	CD	Min 250 V ac, Max 1500 pF, Min 125 degree C. Rated class Y1. Comply with IEC60384-14.	FOWX2	UL, VDE	
Bridging-Capacitor (CY1) (Y1 only) (Optional) (Atternate)	MURATA MFG CO LTD	KX	Min 250 V ac, Max 1500 pF, Min 125 degree C. Rated class Y1. Comply with IEC60384-14.	FOWX2	UL, VDE	
Bridging-Capacitor (CY1) (Y1 only) (Optional) (Atternate)	SUCCESS ELECTRONICS CO LTD	SB, SE	Min 250 V ac, Max 1500 pF, Min 125 degree C. Rated class Y1. Comply with IEC60384-14.	FOWX2	UL, VDE	
Bridging-Capacitor (CY1) (Y1 only) (Optional) (Atternate)	TDK-EPC CORPORATION	CD Miniature series	Min 250 V ac, Max 1500 pF, Min 125 degree C. Rated class Y1. Comply with IEC60384-14.	FOWX2	UL, VDE	
Bridging-Capacitor	WALSIN	AH	Min 250 V ac, Max 330 pF,	FOWX2	UL, VDE	

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(CY2) (Y1 only) (Optional)	TECHNOLOGY CORP		Min 125 degree C. Rated class Y1. Comply with IEC60384-14.			
Bridging-Capacitor (CY2) (Y1 only) (Optional) (Alternate)	TDK-EPC CORPORATION	CD	Min 250 V ac, Max 330 pF, Min 125 degree C. Rated class Y1. Comply with IEC60384-14.	FOWX2	UL, VDE	
Bridging-Capacitor (CY2) (Y1 only) (Optional) (Alternate)	MURATA MFG CO LTD	KX	Min 250 V ac, Max 330 pF, Min 125 degree C. Rated class Y1. Comply with IEC60384-14.	FOWX2	UL, VDE	
Bridging-Capacitor (CY2) (Y1 only) (Optional) (Alternate)	SUCCESS ELECTRONICS CO LTD	SB, SE	Min 250 V ac, Max 330 pF, Min 125 degree C. Rated class Y1. Comply with IEC60384-14.	FOWX2	UL, VDE	
Bridging-Capacitor (CY2) (Y1 only) (Optional) (Alternate)	TDK-EPC CORPORATION	CD Miniature series	Min 250 V ac, Max 330 pF, Min 125 degree C. Rated class Y1. Comply with IEC60384-14.	FOWX2	UL, VDE	
IC Including Capacitor Discharge function (U1)	Leadtrend Technology Corp.	LD7791AGS	100-250V~,47-63Hz; Total cap.: 0.1uf - 2.0uf; Total resistors:1k - 124k Diode (two provided): Min. 600V, min. 0.5A	--	--	
Diode(D6,D8)	Interchangeable	Interchangeable	Min. 600V Min. 0.5A	--	--	
Resistor (R1,R2)	Interchangeable	Interchangeable	Total resistance: 1kohm- 124kohm	--	--	
Insulation tape for (CN1) (one layer)	3M COMPANY ELECTRICAL MARKETS DIV (EMD)	1350F-1	Polyester Tape, rated 130 degree C.	OANZ2	UL	
Insulation tape for (CN1)) (one layer) (Alternate)	3M COMPANY ELECTRICAL MARKETS DIV (EMD)	1350F-2	Polyester Tape, rated 130 degree C.	OANZ2	UL	
Insulation tape for (CN1)) (one layer) (Alternate)	3M COMPANY ELECTRICAL MARKETS DIV (EMD)	1218	Polyester Tape, rated 180 degree C.	OANZ2	UL	
Insulation tape for (CN1)) (one layer) (Alternate)	3M COMPANY ELECTRICAL MARKETS DIV (EMD)	92	Polyester Tape, rated 180 degree C.	OANZ2	UL	
Insulation tape for (CN1)) (one layer)	3M TAIWAN LTD	1388Y-1	Polyester Tape, rated 130 degree C.	OANZ2	UL	

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(Alternate)						
Insulation tape for (CN1)) (one layer) (Alternate)	3M TAIWAN LTD	1098-1	Polyester Tape, rated 130 degree C.	OANZ2	UL	
Insulation tape for (CN1)) (one layer) (Alternate)	BONDTEC PACIFIC CO LTD	370S	Polyester Tape, rated 130 degree C.	OANZ2	UL	
Insulation tape for (CN1)) (one layer) (Alternate)	BONDTEC PACIFIC CO LTD	371F	Polyester Tape, rated 130 degree C.	OANZ2	UL	
Insulation tape for (CN1)) (one layer) (Alternate)	SYMBIO INC	35660	Polyester Tape, rated 130 degree C.	OANZ2	UL	
Insulation tape for (CN1)) (one layer) (Alternate)	SYMBIO INC	35660Y	Polyester Tape, rated 130 degree C.	OANZ2	UL	
Insulation tape for (CN1)) (one layer) (Alternate)	SYMBIO INC	35661	Polyester Tape, rated 130 degree C.	OANZ2	UL	
Insulation tape for (CN1)) (one layer) (Alternate)	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	CT	Polyester Tape, rated 130 degree C.	OANZ2	UL	
Insulation tape for (HS1,HS2,HS3) (two layers)	3M COMPANY ELECTRICAL MARKETS DIV (EMD)	1350F-1	Polyester Tape, rated 130 degree C.	OANZ2	UL	
Insulation tape for (HS1,HS2,HS3) (two layers)(Alternate)	3M COMPANY ELECTRICAL MARKETS DIV (EMD)	1350F-2	Polyester Tape, rated 130 degree C.	OANZ2	UL	
Insulation tape for (HS1,HS2,HS3) (two layers)(Alternate)	3M COMPANY ELECTRICAL MARKETS DIV (EMD)	1218	Polyester Tape, rated 180 degree C.	OANZ2	UL	
Insulation tape for (HS1,HS2,HS4) (two layers)(Alternate)	3M COMPANY ELECTRICAL MARKETS DIV (EMD)	92	Polyester Tape, rated 180 degree C.	OANZ2	UL	
Insulation tape for	3M TAIWAN LTD	1388Y-1	Polyester Tape, rated 130	OANZ2	UL	

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(HS1,HS2,HS4 (two layers)(Alternate)			degree C.			
Insulation tape for (HS1,HS2,HS4 (two layers)(Alternate)	3M TAIWAN LTD	1098-1	Polyester Tape, rated 130 degree C.	OANZ2	UL	
Insulation tape for (HS1,HS2,HS4 (two layers)(Alternate)	BONDTEC PACIFIC CO LTD	370S	Polyester Tape, rated 130 degree C.	OANZ2	UL	
Insulation tape for (HS1,HS2,HS4 (two layers)(Alternate)	BONDTEC PACIFIC CO LTD	371F	Polyester Tape, rated 130 degree C.	OANZ2	UL	
Insulation tape for (HS1,HS2,HS4 (two layers)(Alternate)	SYMBIO INC	35660	Polyester Tape, rated 130 degree C.	OANZ2	UL	
Insulation tape for (HS1,HS2,HS4 (two layers)(Alternate)	SYMBIO INC	35660Y	Polyester Tape, rated 130 degree C.	OANZ2	UL	
Insulation tape for (HS1,HS2,HS4 (two layers)(Alternate)	SYMBIO INC	35661	Polyester Tape, rated 130 degree C.	OANZ2	UL	
Insulation tape for (HS1,HS2,HS4 (two layers)(Alternate)	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	CT	Polyester Tape, rated 130 degree C.	OANZ2	UL	
Heat Shrinkable Tubing (For secondary functional wire)	Changyuan Electronics Group Co., Ltd.	CB-HFT, CYG-ZHG	VW-1, 300Vac min., 125 degree C min., 0.4mm thickness min.	YDPU2	UL	
Heat Shrinkable Tubing (For secondary functional wire) (Alternate)	Tyco Electronics Corp	Versafit V4, Versafit V2	VW-1, 125 degree C min., 0.4mm thickness min.	YDPU2	UL	
Heat Shrinkable Tubing (For secondary functional wire) (Alternate)	Dongguan Quantai Electronics Co., Ltd	T-2	VW-1, 125 degree C min., 0.4mm thickness min.	YDPU2	UL	
Heat Shrinkable Tubing (For secondary functional wire) (Alternate)	Hamburg Industries Co., Ltd	H-2, H-2(CB)	VW-1, 125 degree C min., 0.4mm thickness min.	YDPU2	UL	
Heat Shrinkable	Well One Co., Ltd.	GT-2,	VW-1,	YDPU2	UL	

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Tubing (For secondary functional wire) (Alternate)		GH-2	125 degree C min., 0.4mm thickness min.			
Heat Shrinkable Tubing (For secondary functional wire) (Alternate)	Sumitomo Electric Fine Polymer Inc.	Sumitube F32, Sumitube F32(Z), Sumitube HF2	VW-1, 125 degree C min., 0.4mm thickness min.	YDPU2	UL	
Heat Shrinkable Tubing (For secondary functional wire) (Alternate)	Dongguan Salipt Co., Ltd	SALIPT S-901-300, SALIPT S-901-600	VW-1, 125 degree C min., 0.4mm thickness min.	YDPU2	UL	
Printed Wiring Board	Interchangeable	Interchangeable	Rated V-1 or better, min. 130 degree C	ZPMV2	UL	
Heat Sink (HS1)	--	--	Aluminum for BD1,Q1,Q2	--	--	Illustrations ID08
Heat Sink (HS2)	--	--	Aluminum for Q3	--	--	Illustrations ID09
Heat Sink (HS3)	--	--	Aluminium,	--	--	Illustrations ID10
Heat Sink (HS4)	--	--	Aluminium,	--	--	Illustrations ID11
Insulation sheet between main board solder side and primary bottom shielding (optional used with primary bottom shielding)	Formex,Div Of II Tool Works Inc,Frmrly Fastex,Div Of II Tool Works Inc	FORMEX GK-(a)(b)(f2)	VTM-0 min., 115 degree C min., 0.4mm thickness min.	QMFZ2	UL	Illustrations ID12
Insulation sheet between main board solder side and primary bottom shielding (optional used with primary bottom shielding)	Sabic Innovative Plastics Us L L C	FR60, FR700	VTM-0 min., 125 degree C min., 0.4mm thickness min.	QMFZ2	UL	
Insulation sheet between main board solder side and primary bottom shielding	Sun Delta Corp	VS(f)	VTM-0 min., 120 degree C min., 0.4mm thickness min.	QMFZ2	UL	

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(optional used with primary bottom shielding)						
Insulation sheet between main board solder side and primary bottom shielding (optional used with primary bottom shielding)	Sichuan Longhua Film Co., Ltd.	PP-(i)(j)	V-2 min., 105 degree C min., 0.4mm thickness min.	QMFZ2	UL	
Insulation sheet between main board solder side and primary bottom shielding (optional used with primary bottom shielding)	SKC Co., Ltd.	SH71S, SR55	VTM-2 min., 105 degree C min., 0.4mm thickness min.	QMFZ2	UL	

Enclosures

Type	Supplement Id	Description
Figures	01	Overall View-1 (C14 type Inlet) (FSP075-DHAN3, PUP75N3-12yyyyy)
Figures	02	Overall View-2 (C6 type Inlet) (FSP075-DHBN3, PUP75N3S-12yyyyy)
Figures	03	Overall View-3 (C14 type Inlet) (FSP084-DHAN3, PUP84N3-12yyyyy)
Figures	04	Overall View-4 (C6 type Inlet) (FSP084-DHBN3, PUP84N3S-12yyyyy)
Figures	05	Internal Overall View-1 (FSP075-DHAN3, PUP75N3-12yyyyy, FSP075-DHBN3, PUP75N3S-12yyyyy)
Figures	06	Internal Overall View-2 (FSP075-DHAN3, PUP75N3-12yyyyy, FSP075-DHBN3, PUP75N3S-12yyyyy)
Figures	07	Internal Overall View-3 (FSP075-DHAN3, PUP75N3-12yyyyy, FSP075-DHBN3, PUP75N3S-12yyyyy)
Figures	08	Internal Overall View-4 (FSP075-DHAN3, PUP75N3-12yyyyy, FSP075-DHBN3, PUP75N3S-12yyyyy)
Figures	09	Internal Overall View-1 (FSP084-DHAN3, PUP84N3-12yyyyy, FSP084-DHBN3, PUP84N3S-12yyyyy)
Figures	10	Internal Overall View-2 (FSP084-DHAN3, PUP84N3-12yyyyy, FSP084-DHBN3, PUP84N3S-12yyyyy)
Figures	11	Internal Overall View-3 (FSP084-DHAN3, PUP84N3-12yyyyy, FSP084-DHBN3, PUP84N3S-12yyyyy)
Figures	12	Internal Overall View-4 (FSP084-DHAN3, PUP84N3-12yyyyy, FSP084-DHBN3, PUP84N3S-12yyyyy)
Figures	13	PCB Bottom View
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Figures	15	PWB Top View
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Figures	17	Transformer-1
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Illustrations	01	Enclosure
Illustrations	02	Output Cord Strain Relief
Illustrations	03	Line Choke (LF1)
Illustrations	04	Line Choke (LF2)
Illustrations	05	Line Choke (LF3)
Illustrations	06	Line Choke (L1)
Illustrations	07	Transformer (T1)
Illustrations	08	Heatsink (HS1)
Illustrations	09	Heatsink (HS2)
Illustrations	10	Heatsink (HS3)
Illustrations	11	Heatsink (HS4)
Illustrations	12	Insulation Sheet
Illustrations	13	PCB Layout
Illustrations	14	Production Notice (FSP075-DHAN3, PUP75N3-

		12yyyyy, FSP075-DHBN3, PUP75N3S-12yyyyy)
Illustrations	15	Production Notice (FSP084-DHAN3, PUP84N3-12yyyyy, FSP084-DHBN3, PUP84N3S-12yyyyy)

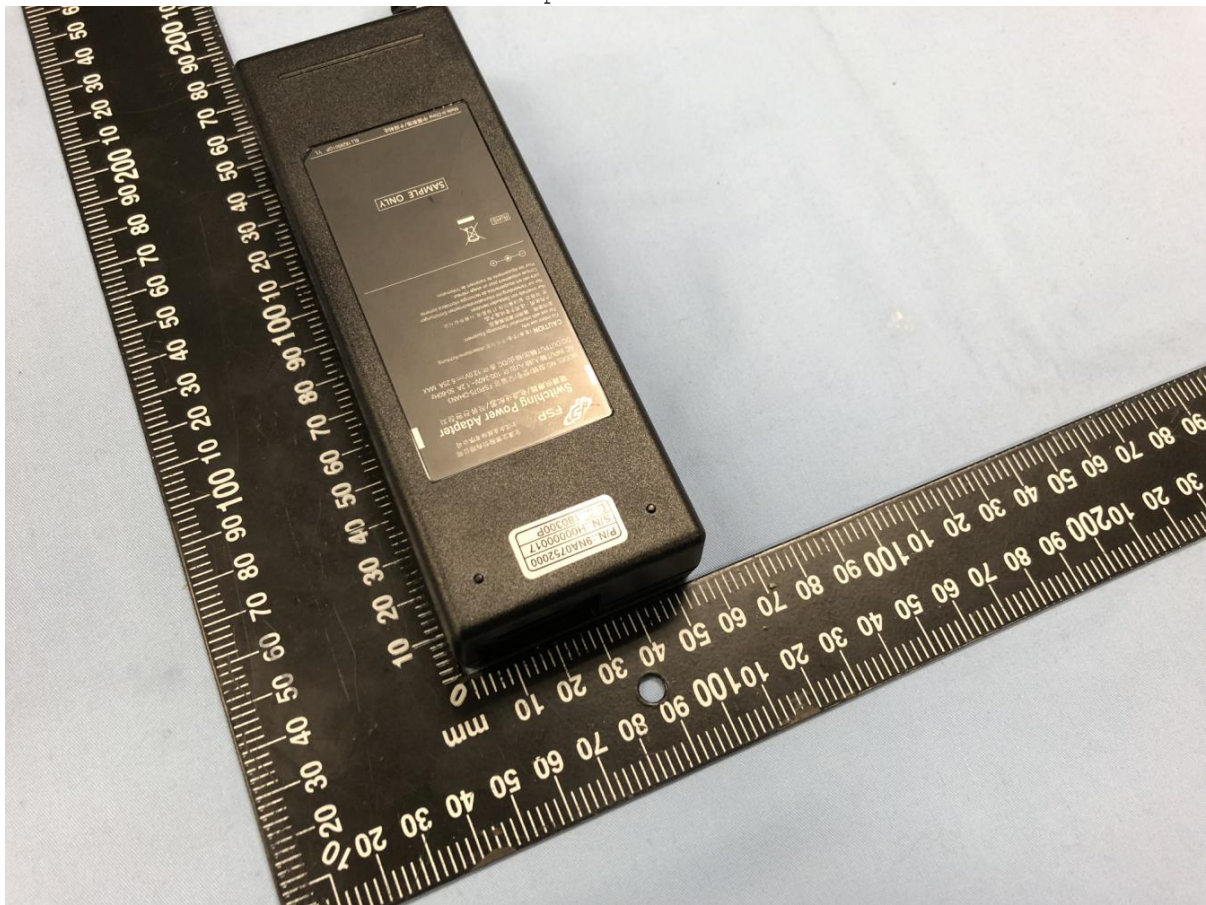
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FIG-1

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FIG-2

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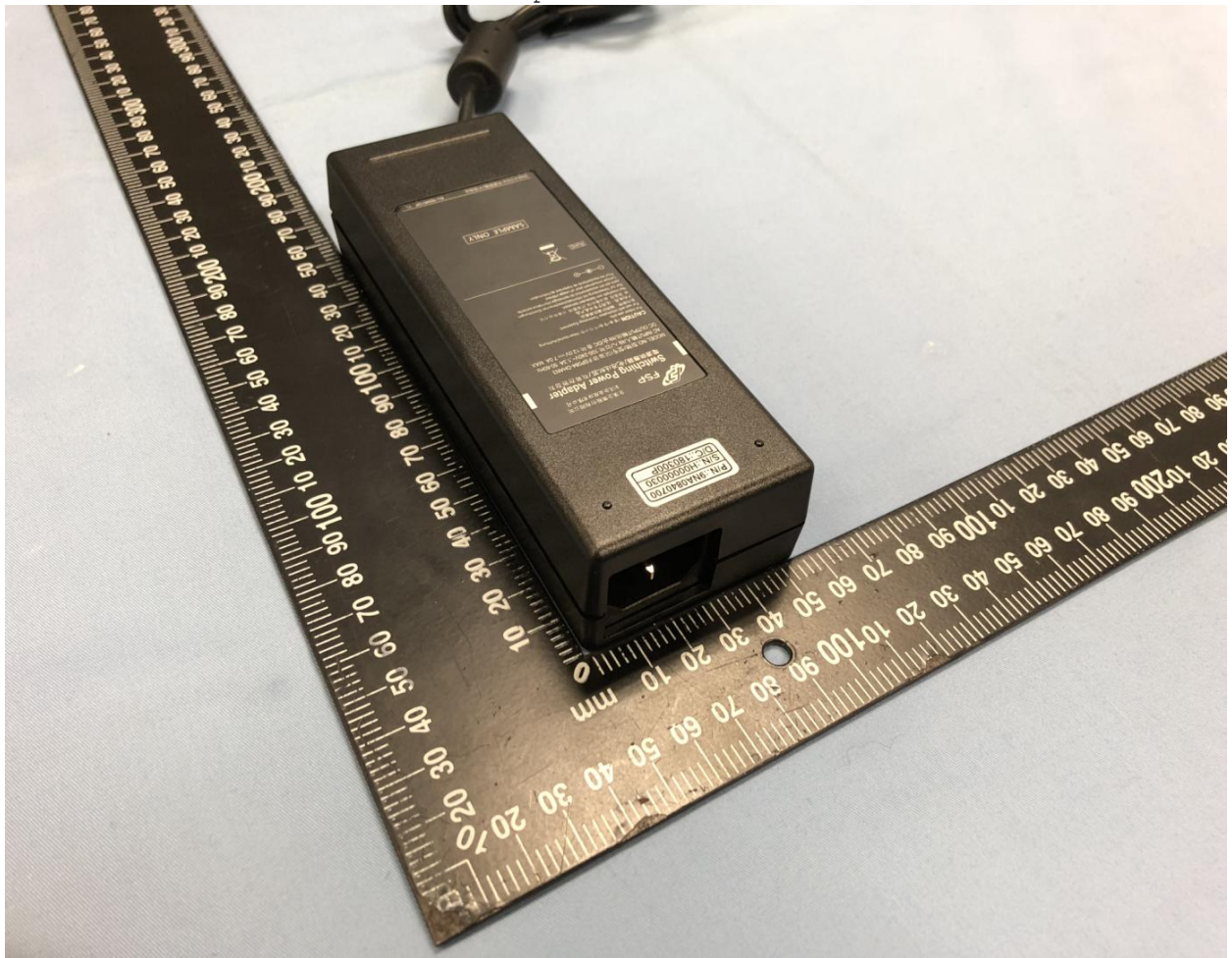
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FIG-3

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FIG-4

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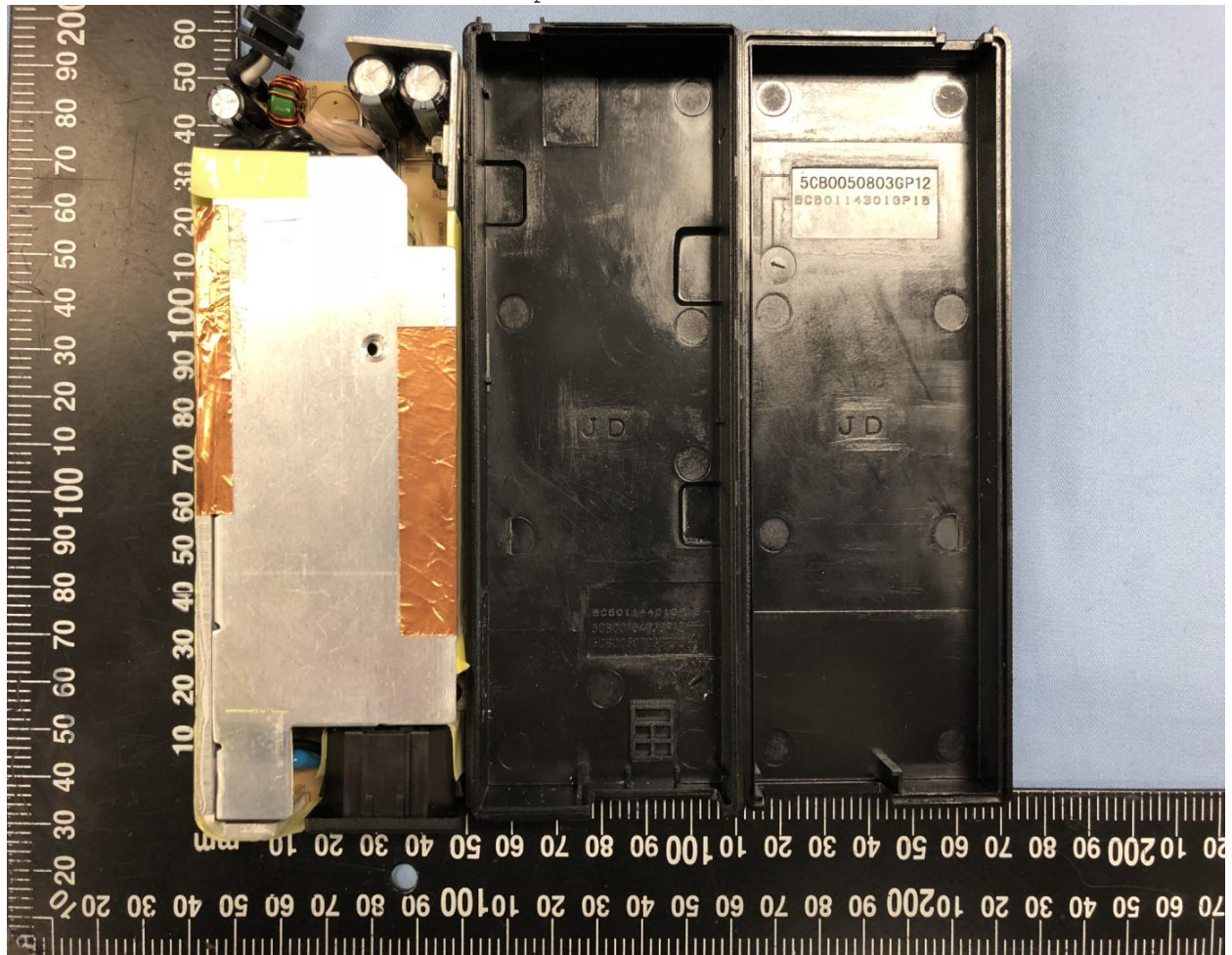
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FIG-5

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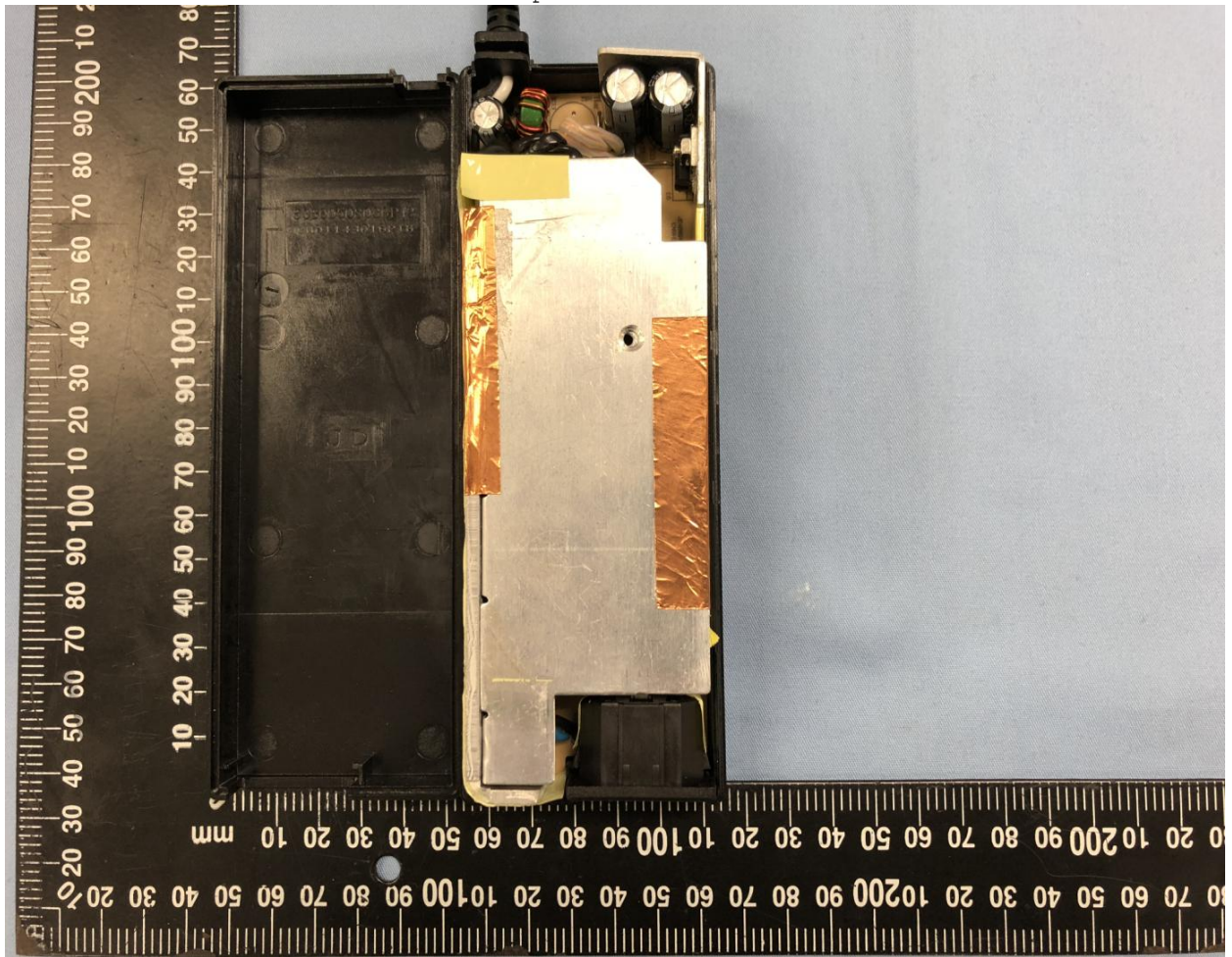
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FIG-6

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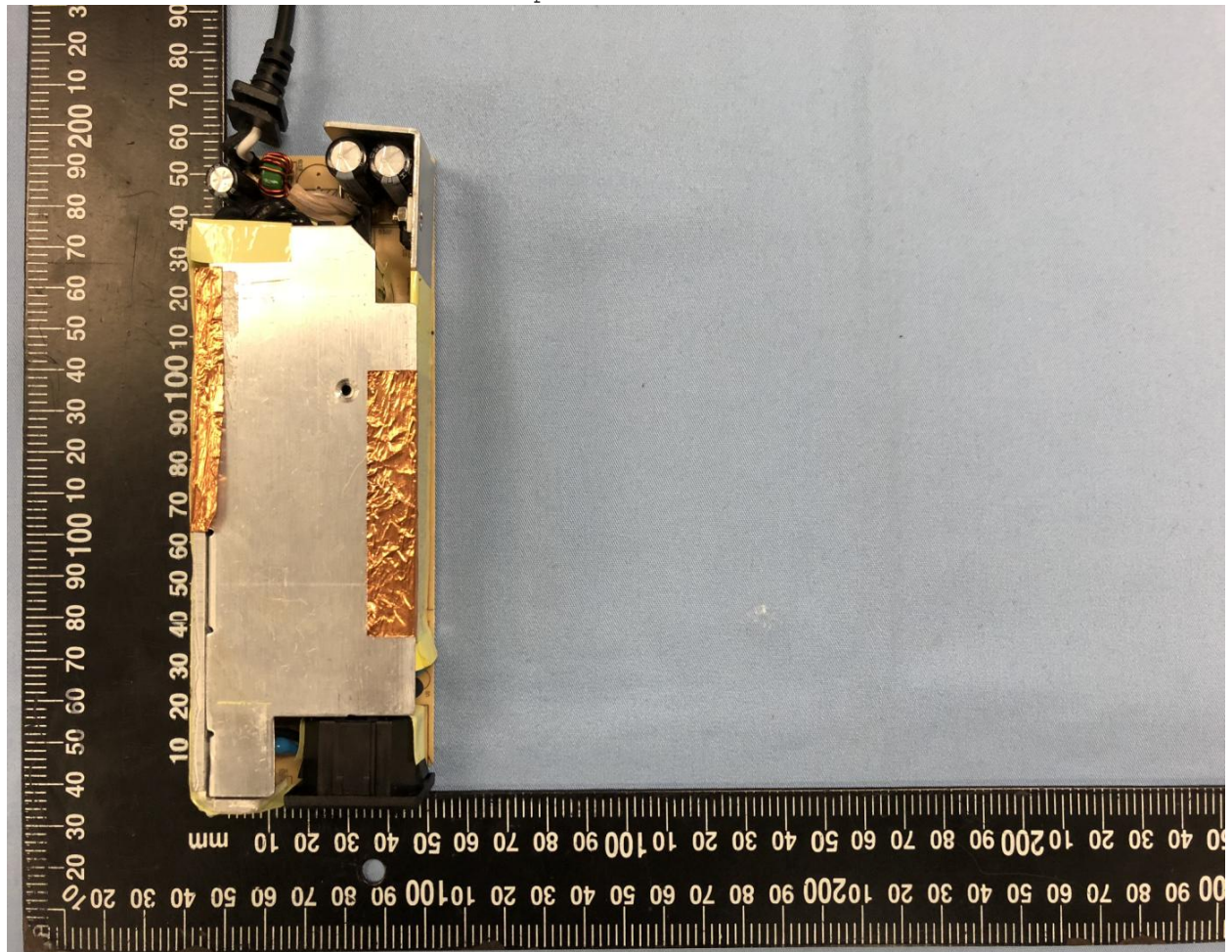
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FIG-7

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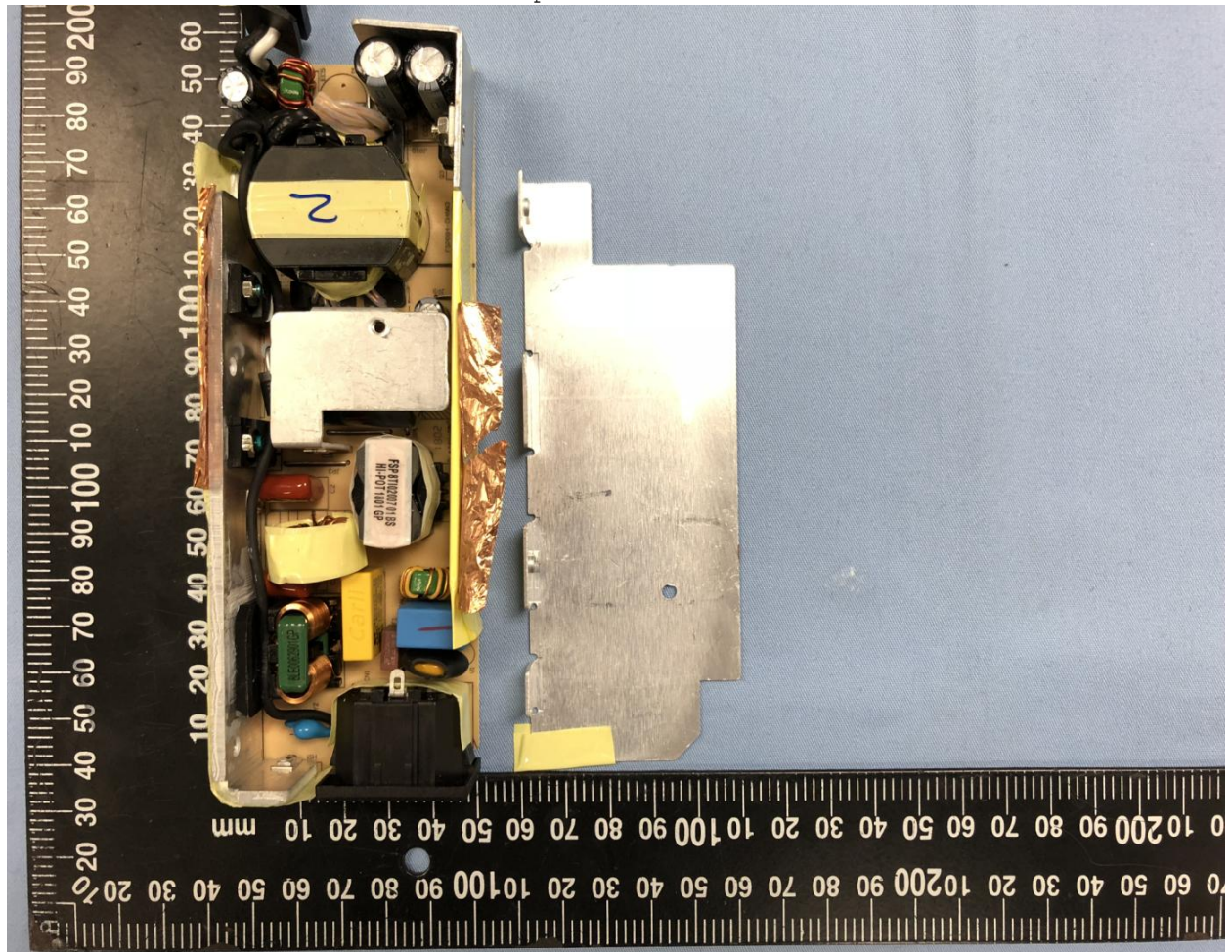
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FIG-8

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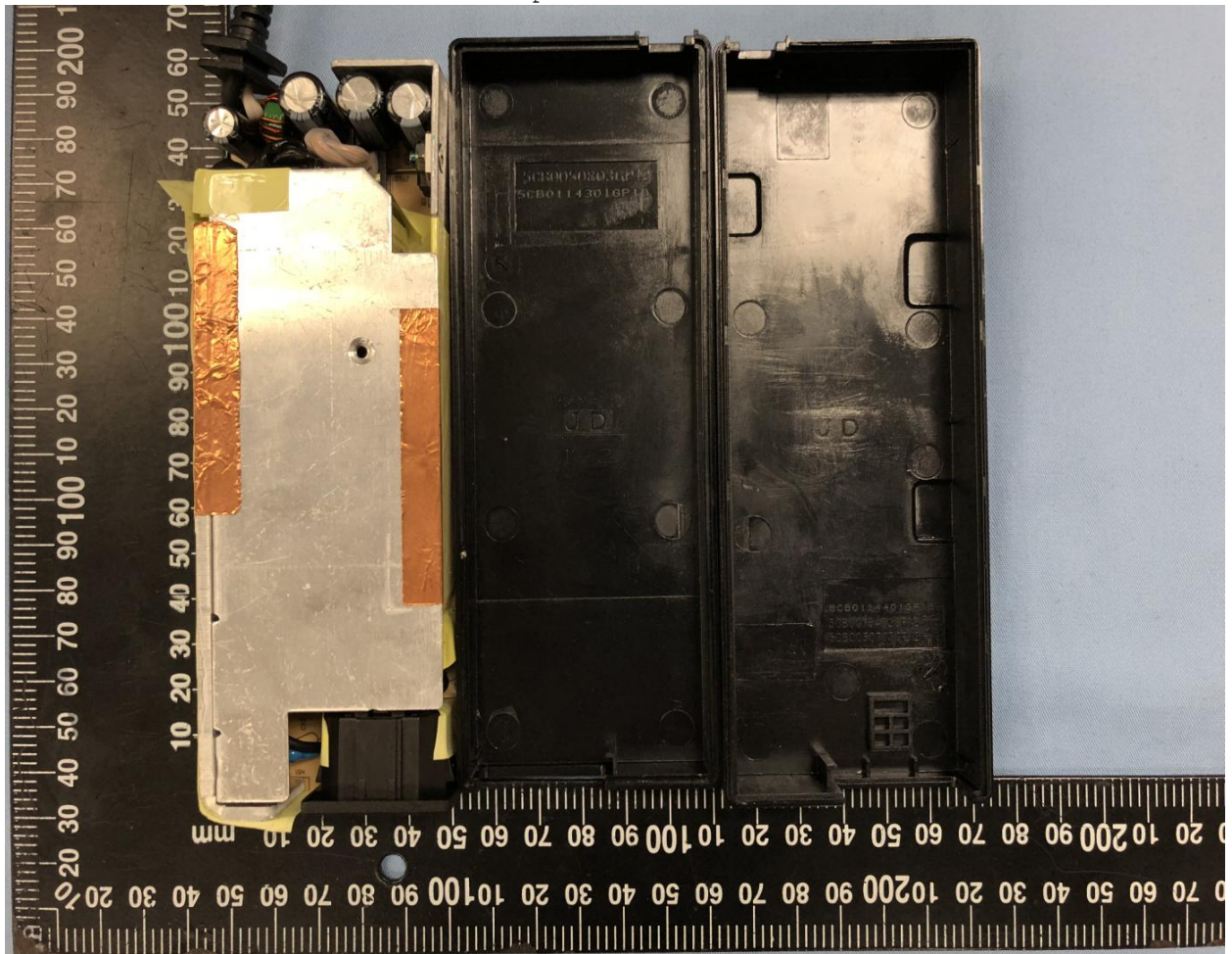
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FIG-9

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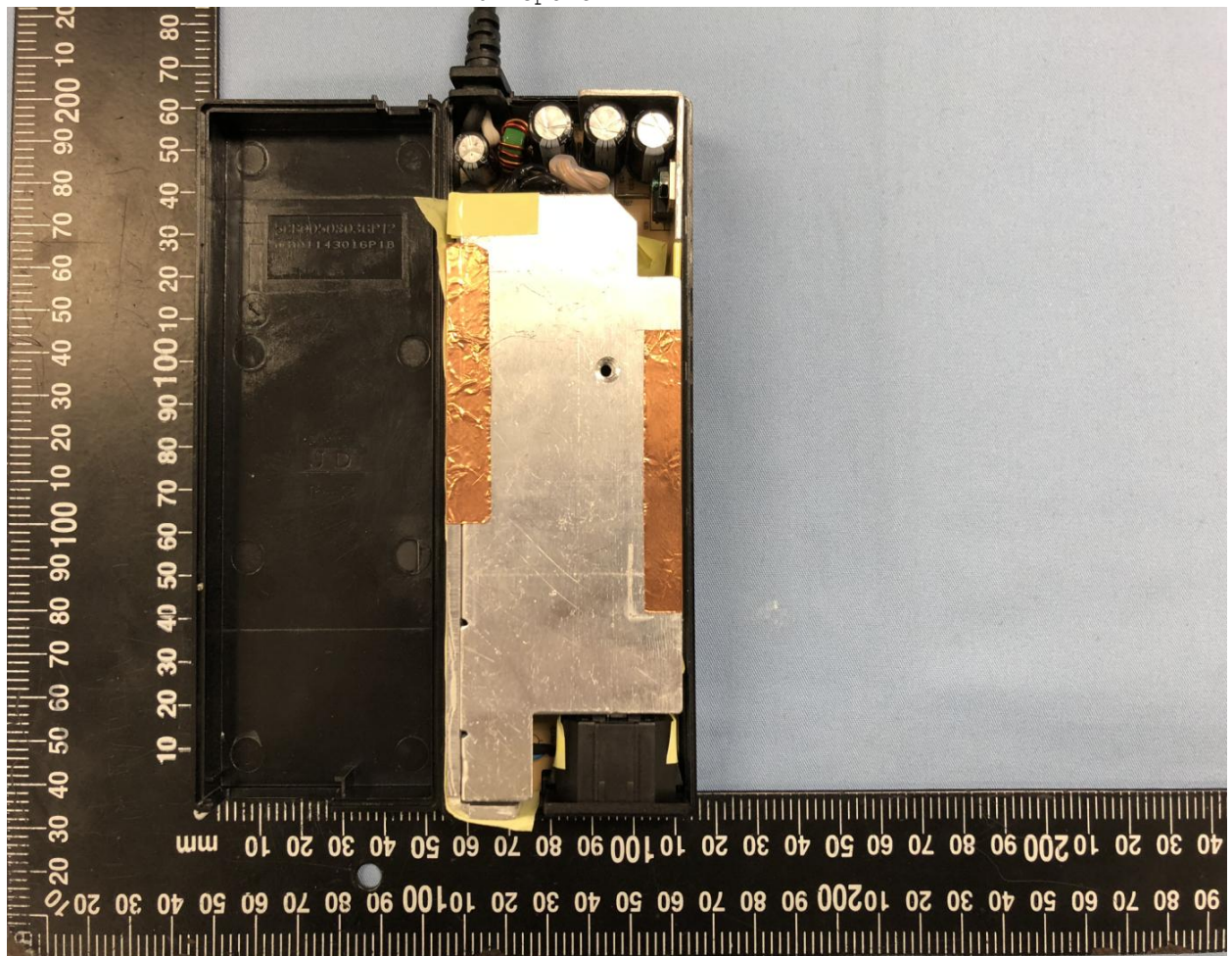
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FIG-10

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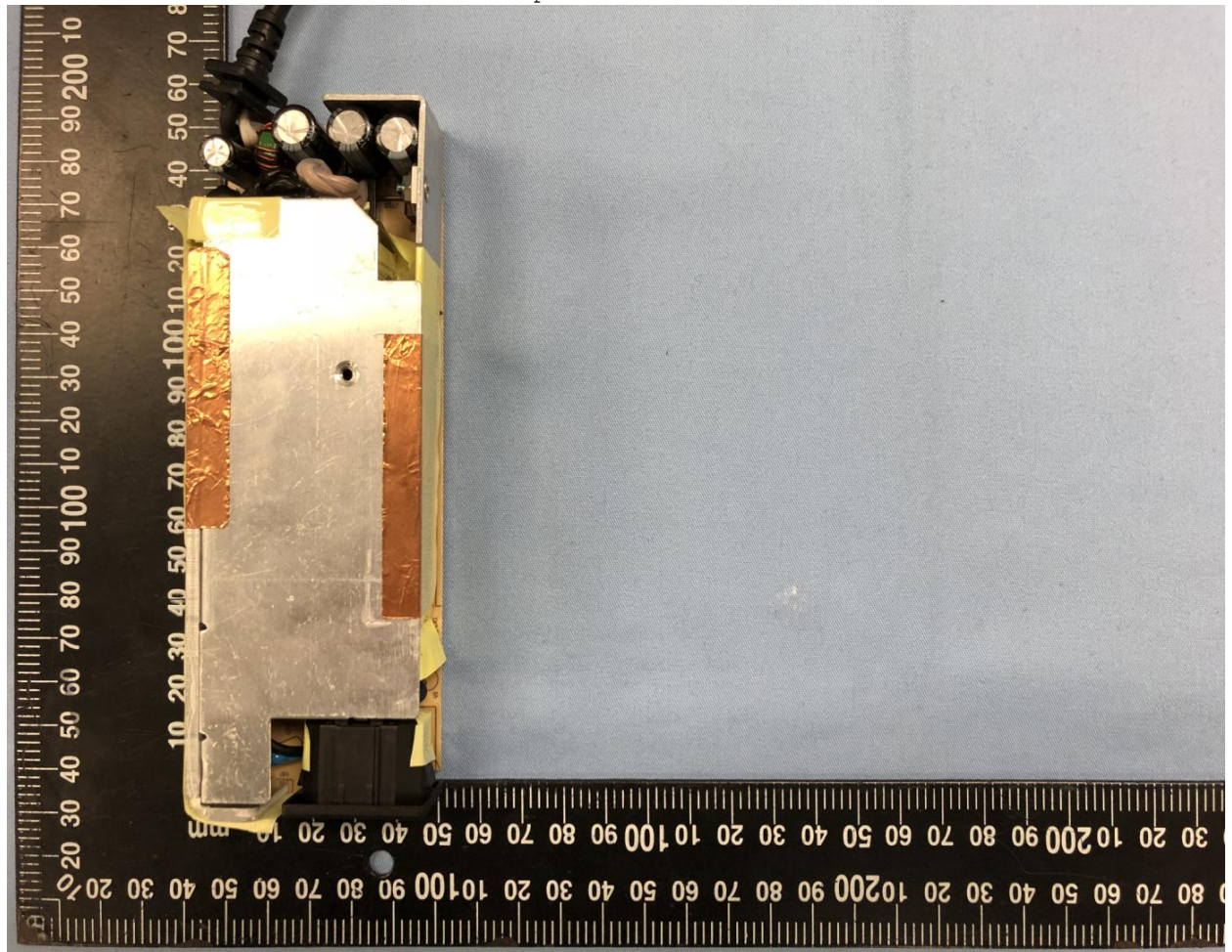
File E190414

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FIG-11

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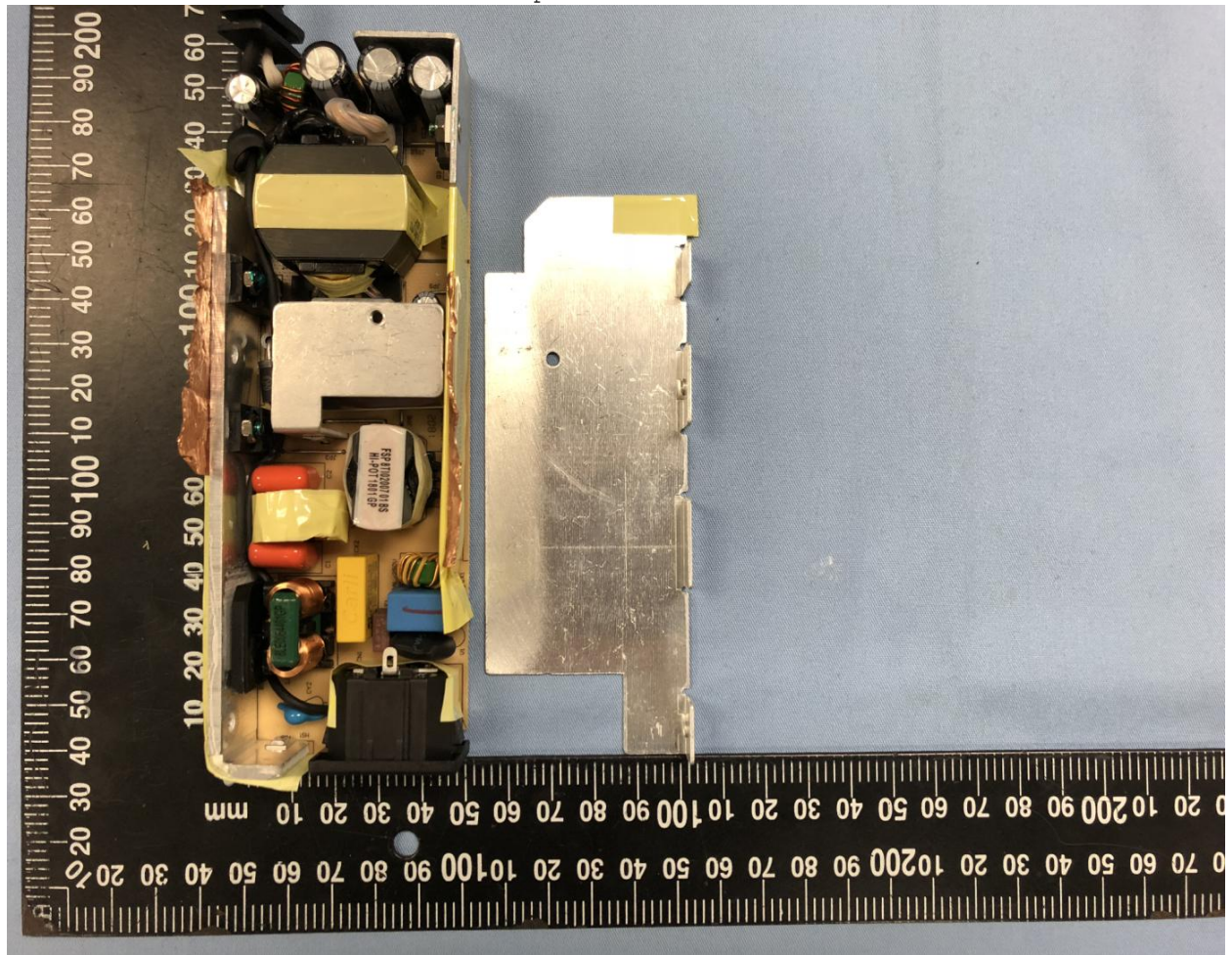
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FIG-12

Issued: 2018-04-24



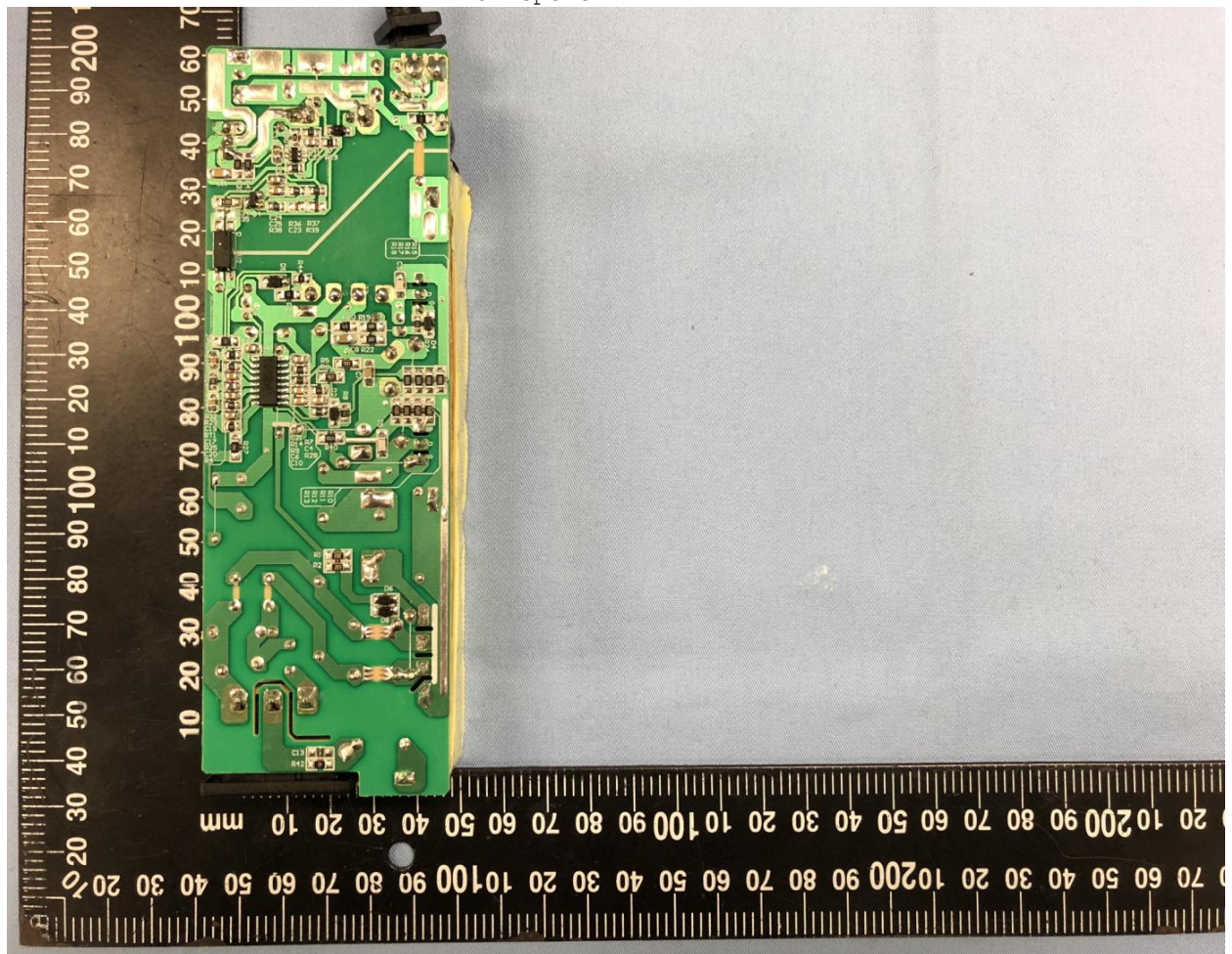
File E190414

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FIG-13

Issued: 2018-04-24



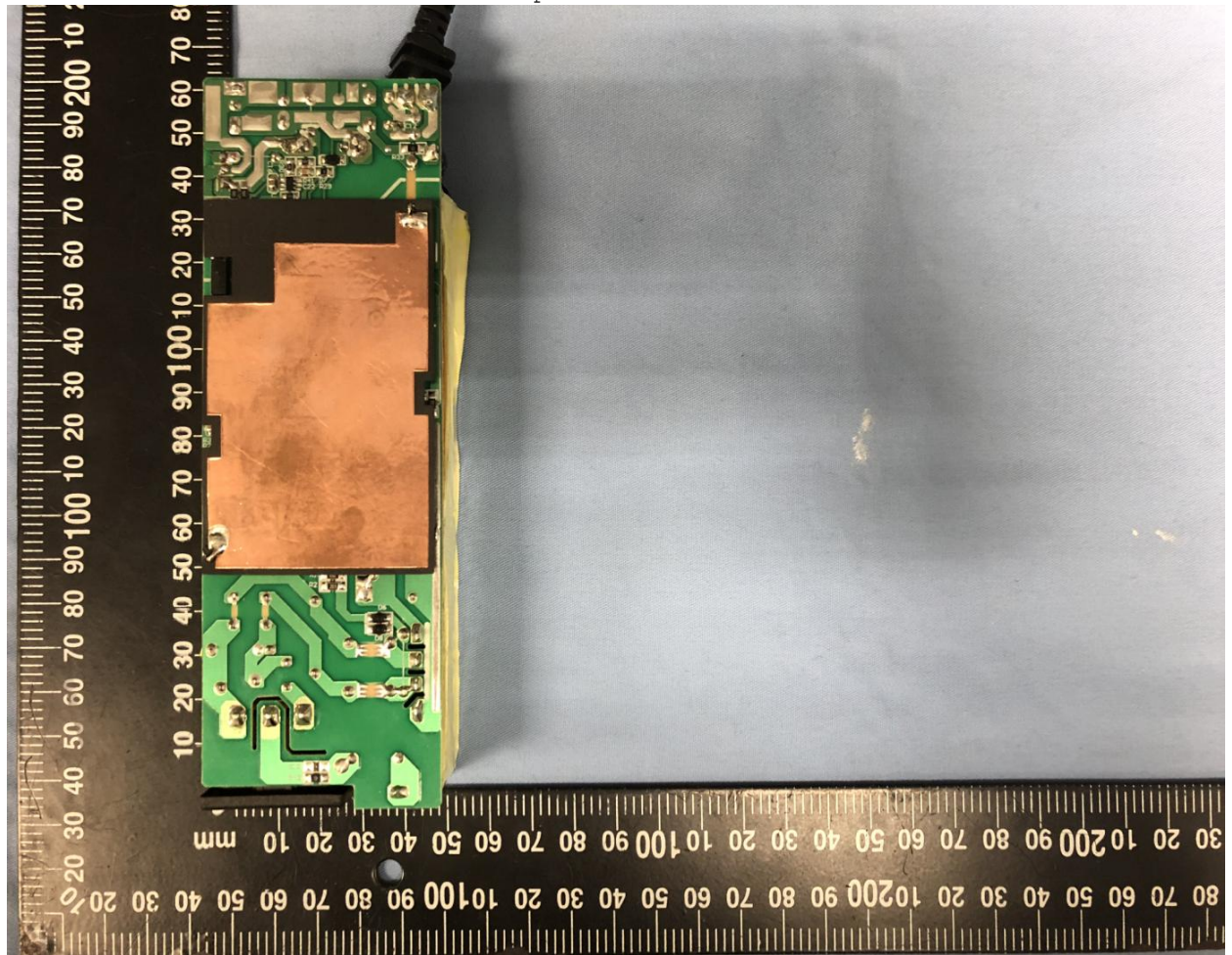
File E190414

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FIG-14

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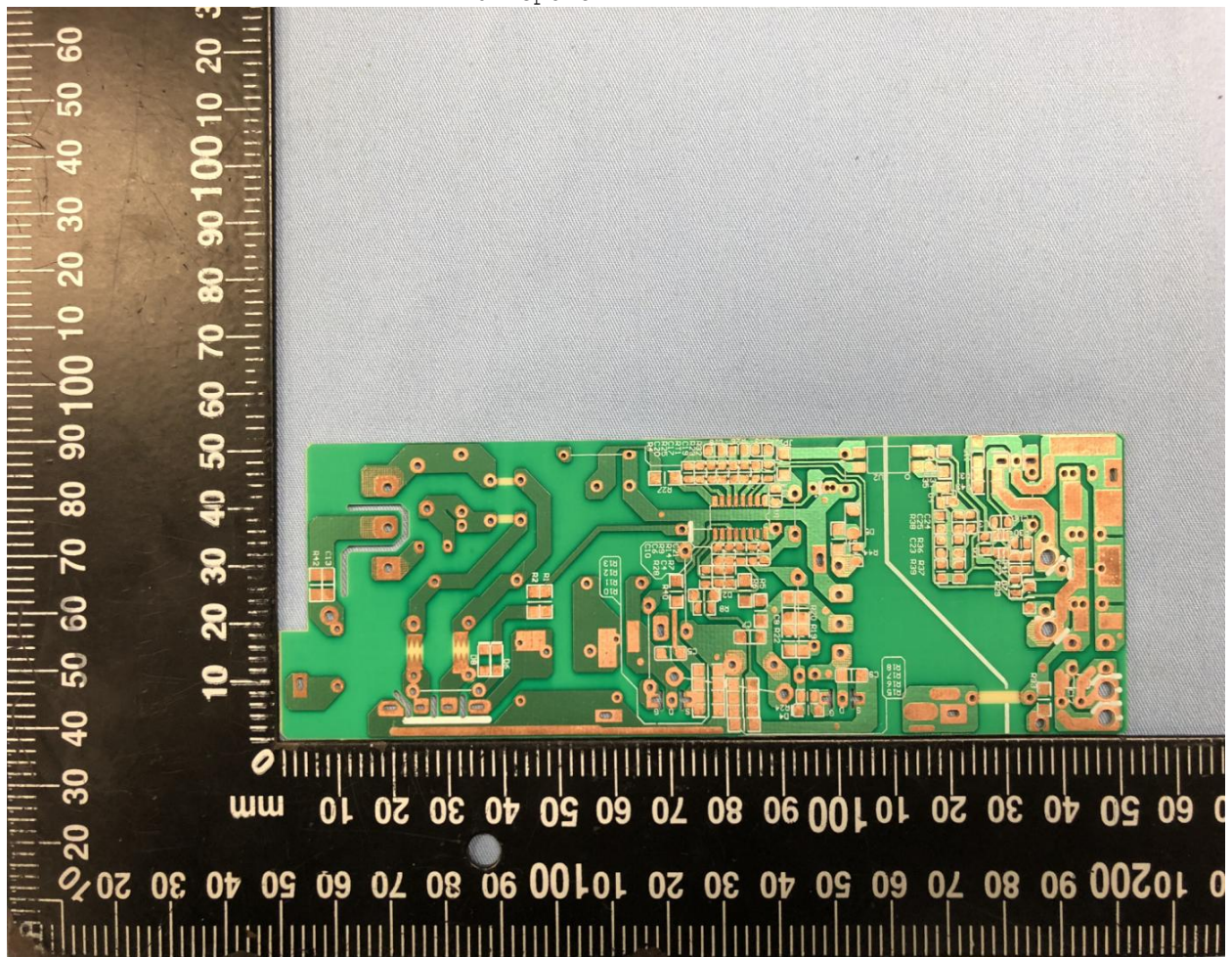
File E190414

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FIG-16

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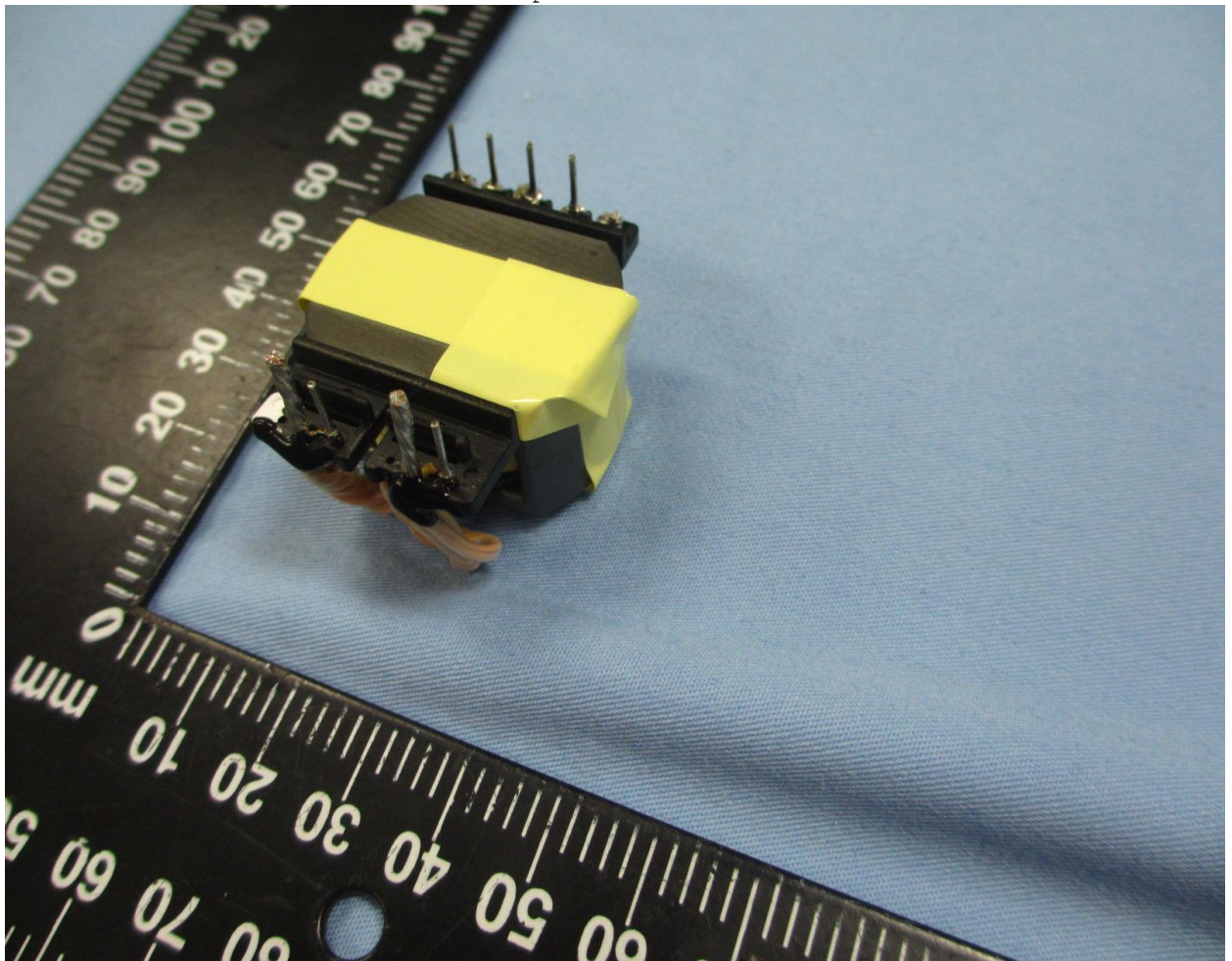
File E190414

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FIG-17

Issued: 2018-04-24



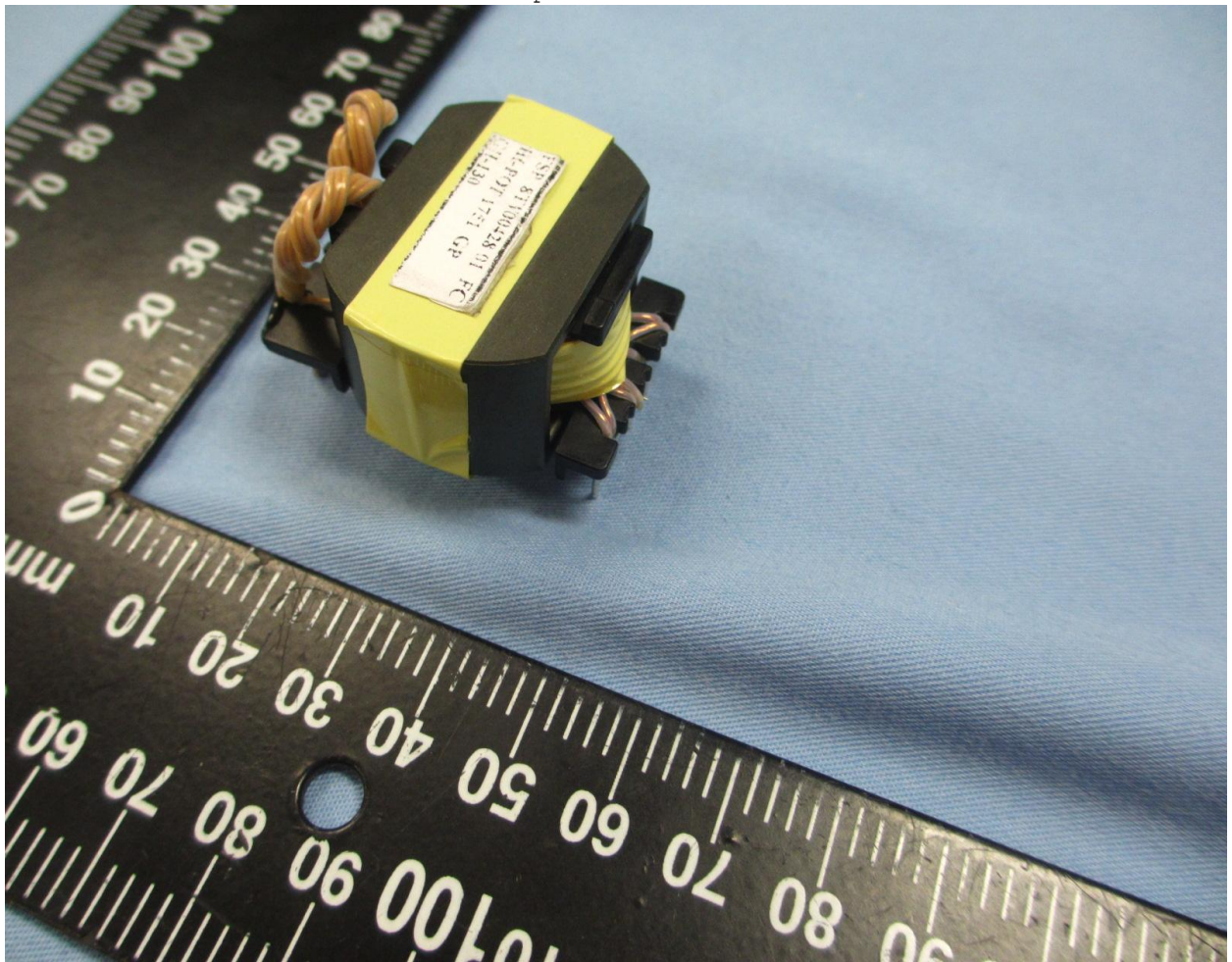
File E190414

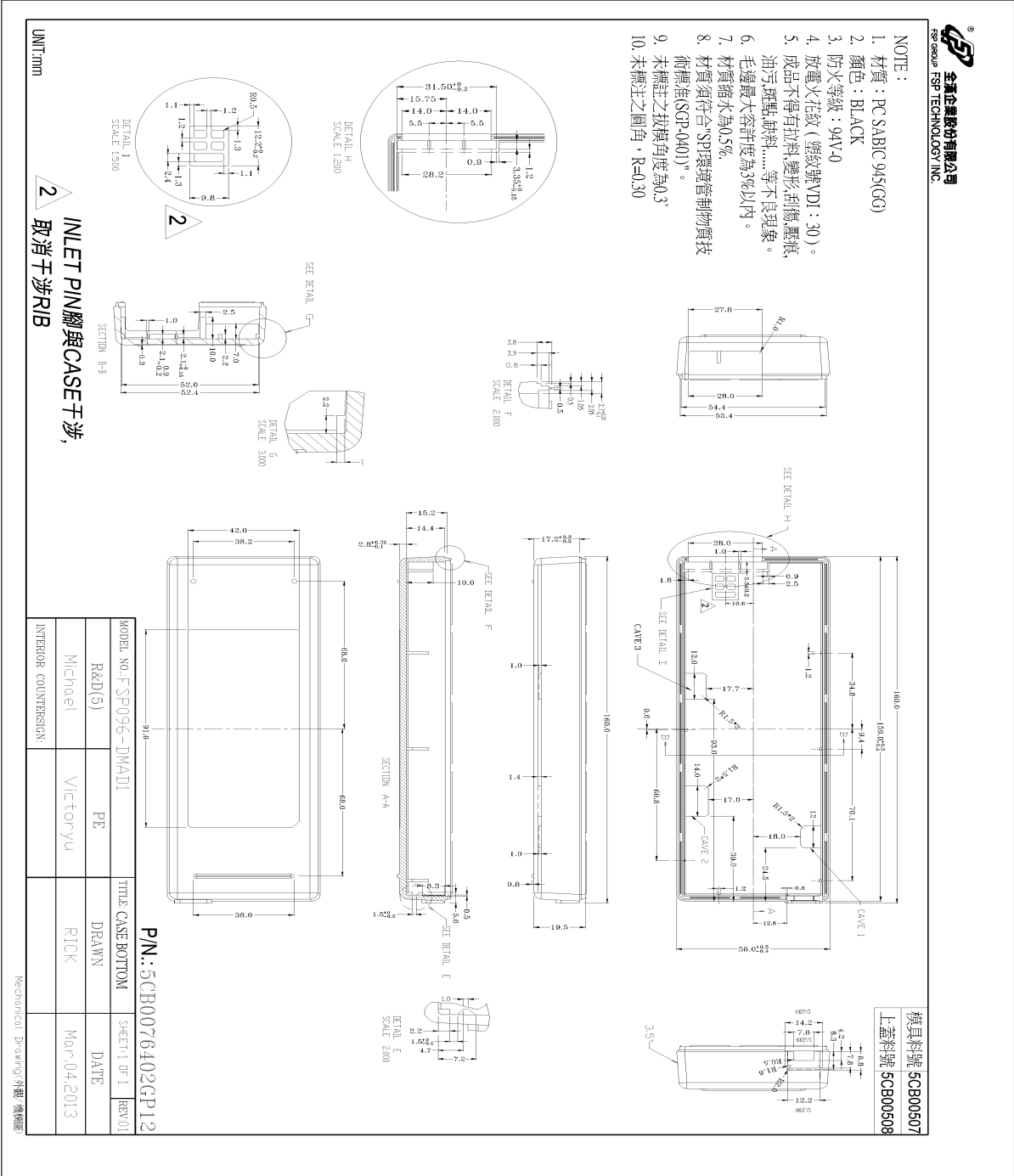
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FIG-18

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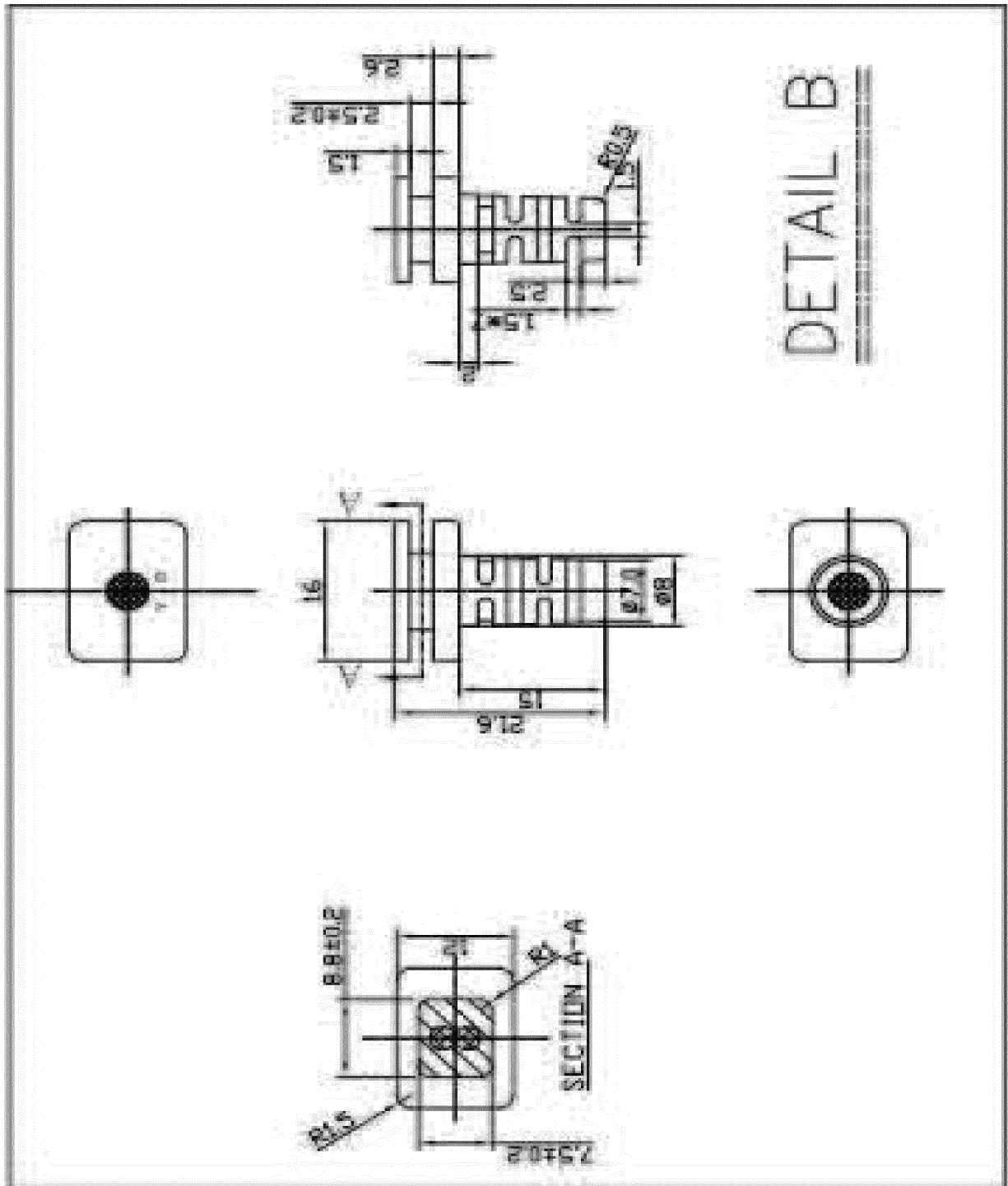
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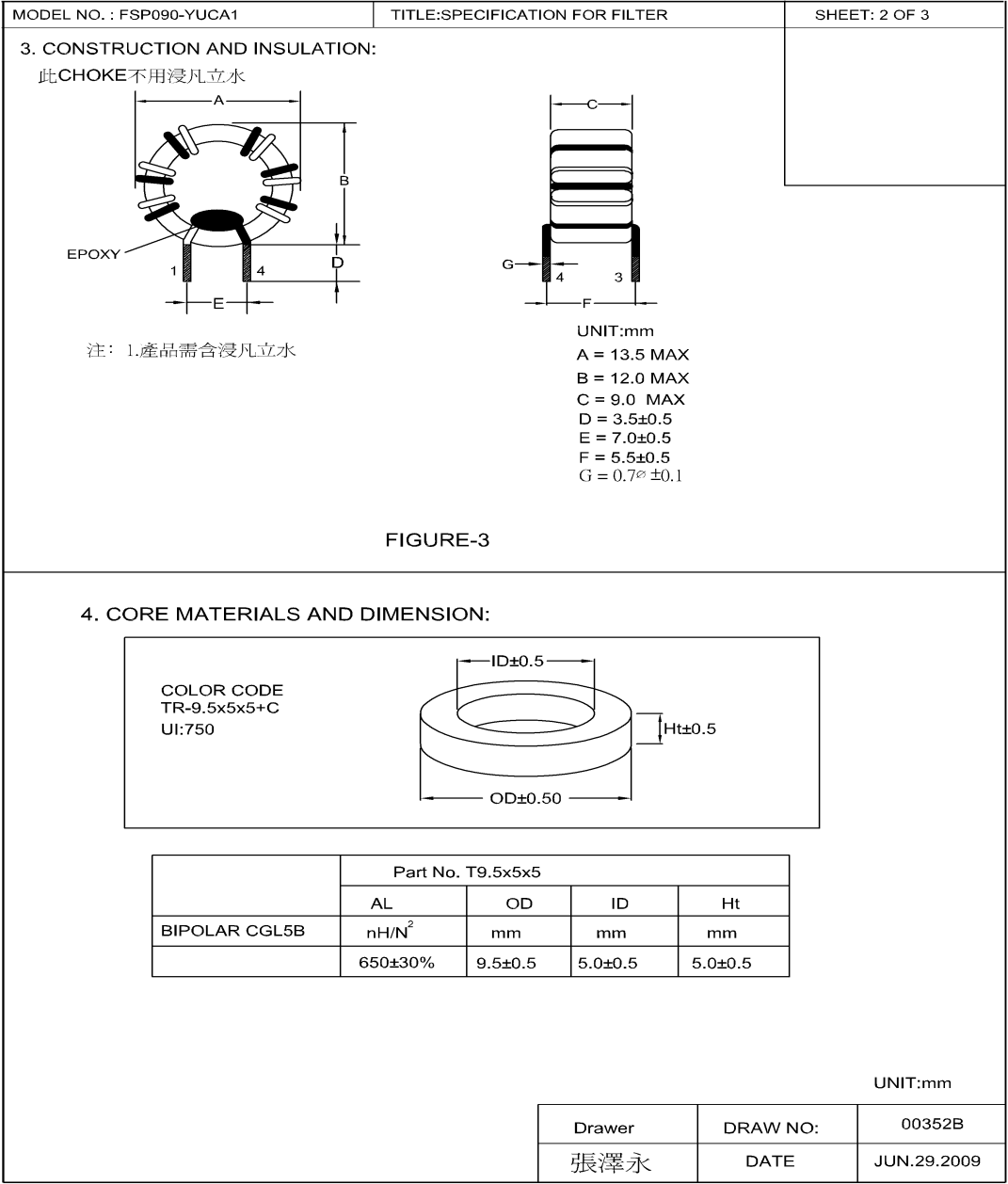
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ILL-2

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表單編號:7000P-0118

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全漢企業股份有限公司
FSP TECHNOLOGY INC.

P/N.:8LM0269901GP

MODEL NO: FSP090-YUCA1		TITLE:SPECIFICATION FOR FILTER		SHEET: 3 OF 3	
5. MATERIAL LIST :					
NO.	ITEM	MATERIAL	SUPPLIER	UL NO.	
1.	CORE	GL5B	BIPOLAR ELECTRONIC CO.,LTD.		
2.	WIRE	UEWN/U	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO., LTD.	E201757	
		UEWS/U			
		UEW-U	SIAM PACIFIC ELECTRIC WIRE & CABLE CO.,LTD.	E196993	
		TYA1-130	TA YA ELECTRIC WIRE&CABLE CO.,LTD.	E84201	
		TYPU-130	TA YA ELECTRIC WIRE FACTORY	E197768	
		UEW-4	JUNG SHING WIRE CO.,LTD.	E174837	
		UEY-2	JUNG SHING WIRE CO.,LTD.	E174837	
3.	EPOXY	G-9008	GUDAK CHEMISTRY TECH.(D.G.)LTD.		
4.	TRIPLE WIRE	TEX-E	FURUKAWA ELECTRONIC CO.,LTD.	E206440	
		TRW(B)	GREAT LEOFLON INDUSTRIAL CO.,LTD.	E211989	
5.	VARNISH	468-2(+)	ELANTAS ELECTRCAL INSULATION ELANTAS PDG INC	E75225	
Drawer 張澤永 DRAW NO: DATE 00352C JUN.29.2009					

表單編號:7000P-0118



P/N : 8LE0064401GP 表單版本 : 9

MODEL NO : FSP045-RACN3	TITLE : SPECIFICATION FOR CHOKE	SHEET : 2 OF 6
1、外形尺寸 CONSTRUCTIONS & DIMENSIONS 单位 UNIT : mm FRON VIEW SIDE VIEW BOTTOM VIEW TOP VIEW 8LE0064401GP 注：1、点胶固定线圈。 2、产品须浸漆。		
CHECK	DRAWER	Jiang haotian
Yan difei	DATE	JUN.19,2017

表單編號:7000P-0118



P/N : 8LE0064401GP 表單版本 : 9

MODEL NO : FSP045-RACN3	TITLE : SPECIFICATION FOR CHOKE	SHEET : 3 OF 6
2、电气原理图 SCHEMATIC DIAGRAM		
3、绕制结构图 WINDING SPEC		
CHECK		DRAWER
Yan difei		DATE
		Jiang haotian
		JUN.19,2017

表單編號:7000P-0118



P/N : 8LE0064401GP 表單版本 : 9

MODEL NO : FSP045-RACN3		TITLE : SPECIFICATION FOR CHOKER		SHEET : 4 OF 6	
4、绕制顺序表 WINDING SPEC					
NO	引脚 TERMINAL	漆包线规格 DIAMETER WIRE	圈数 TURNS	胶带层数 NO. OF TAPE	绕制要求 WINDING METHOD
N1	1-4	UEW 0.13*1.0	57Ts REF	/	密绕
N2	2-3	UEW 0.13*1.0	57Ts REF	/	密绕
5、电气特性 ELECTRICAL CHARACTERISTICS					
NO	参数名称 ITEM	测量端点 TERMINAL	技术要求 SPECIFICATION	测试条件 REMARKS	
1	电感量 INDUCTANCE	L1-4/2-3	13mH MIN	HP4980 1kHz 0.3V 25℃	
3	直流电阻 DC RESISTANCE	R1-4/2-3	260mΩ MAX	YY2511	
4	耐压 DIELECTRIC STRENGTH	N1-N2	1.5KV	CJ2671 AC50Hz 1mA 1s	
注：测试温度 25℃±5℃，环境条件在常态气压下，湿度 45%~80%。					
			CHECK	DRAWER	Jiang haotian
			Yan difei	DATE	JUN.19,2017

表單編號:7000P-0118



P/N : 8LE0064401GP 表單版本 : 9

MODEL NO : FSP045-RACN3			TITLE : SPECIFICATION FOR CHOKE			SHEET : 5 OF 6	
6、材料明细表 MATERIAL LIST							
NO	材料名称 ITEM	规格 MATEIAL	等级 TMP	绝缘等级 INSULATING TMP	制造厂商 SUPPLER OF THE MATERIAL	UL NO	
1	磁芯 CORE	SQ1515 10K			TIANMING		
2	底座 BASE	T375HF	150℃	UL94-V0	CHANG CHUN PLASTICS CO LTD	E59481	
3	漆包线 WIRE	UEW 0.13*1.0	130℃	B	WUXI JUFENG COMPOUND LINE CO LTD	E206882	
					WELL ASCENT ELECTRONIC (GANZHOU) CO LTD	E318511	
4	胶 EPOXY	TB1401			THREEBOND CHEMICAL INDUSTRY CO LTD	N. A.	
5	漆 VARNISH	T-4260	155℃		SUZHOU TAIHU ELECTRIC ADVANCED MATERIAL CO LTD	E228349	
</							

表單編號:7000P-0118



P/N : 8LE0064401GP 表單版本 : 9

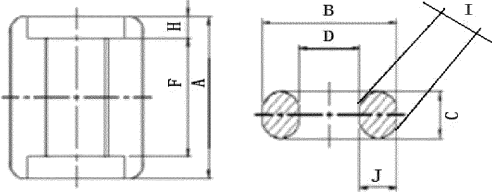
MODEL NO : FSP045-RACN3			TITLE : SPECIFICATION FOR CHOKE				SHEET : 6 OF 6	
7、测试资料 TEST DATA								
项目	测量端点	技术要求	1	2	3	4	5	
电感量 1kHz 0.3V	L1-4	13mH MIN						
	L2-3	13mH MIN						
电阻 25℃	R1-4	260mΩ MAX						
	R2-3	260mΩ MAX						
耐压 AC50Hz 1mA 1s	N1-N2	1.5KV						
测试者：刘丽娜								
				CHECK	DRAWER	Jiang haotian		
				Yan difei	DATE	JUN.19,2017		

表單編號:7000P-0118

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And Report



P/N : 8LE0064401GP 表單版本 : 9

MODEL NO : FSP045-RACN3	TITLE : SPECIFICATION FOR CHOKE	SHEET : 7 OF 7						
8、磁芯尺寸 CORE DIMENSIONS  The drawing shows two views of a magnetic core. The left view is a side profile showing dimensions A (total height), F (height of the central window), and H (height of the top flange). The right view is a top-down perspective showing dimensions B (width), D (width of the central window), C (width of the bottom flange), I (diagonal length of the top flange), and J (width of the bottom flange). The central window is shaded with diagonal lines. A:15.6±0.4 B:15.6±0.4 C:6.0±0.3 D:5.6±0.3 F:10.7±0.3 H:2.45±0.3 I:6.3max J:5.0±0.3								
<table><tr><td>CHECK</td><td>DRAWER</td><td>Jiang haotian</td></tr><tr><td>Yan difei</td><td>DATE</td><td>NOV.01,2017</td></tr></table>			CHECK	DRAWER	Jiang haotian	Yan difei	DATE	NOV.01,2017
CHECK	DRAWER	Jiang haotian						
Yan difei	DATE	NOV.01,2017						

表單編號:7000P-0118



P/N: 8TI0200701GP

表單版本: 9

MODEL NO:FSP084-DHAN3	TITLE: SPECIFICATION FOR TRANSFORMER & Coil	SHEET: 6 of 12
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[2] SCHEMATICS

(Pri.) (Sec.)

Dot Mark : Polarity [BOTTOM VIEW]

[3] WINDING SPECIFICATIONS

No.	Order	Coil	Terminal	Wire	Turns	Winding Method	Note
1	1	N1	1 - 3	2UEW 0.1/30	50	CLOSE	
2	2	N2	5 - 4	2UEW 0.2	5	SPACE	

* Clockwise direction is an order direction when see a transformer from the upper part.

DRAWER	DRAW NO.	02007E
曾源	DATE	Nov.09.2017

表單編號: 7000P-0118



全漢企業股份有限公司
FSP Group Inc.

P/N: 8TI0200701GP

表單版本:9

MODEL NO:FSP084-DHAN3			TITLE:SPECIFICATION FOR TRANSFORMER & Coil			SHEET:8 of 12		
[5] MATERIAL LIST & INSULATING CONSTRUCTION								
No.	ITEM & MATERIAL		MIN THICKNESS OF 1 LAYER	UL T.I (°C)	MANUFACTURER	UL FILE NO.	SUPPLIER	
1	CORE CQ20/16	QXC-P95 JPP-95	—	—	Quanxici Electronic technology co.,ltd A-CORE JIANGMEN ELECTRONICS CO.,LTD	—	泉鑫磁 安磁	
2	BOBBIN	PM-9823 PM-9630 Phenol Resin “无红磷” PM-9750 T200HF T375HF	0.51 mm	150 94V-0	SUMITOMO BAKELITE CO.,LTD.	E41429	科鑫	
			0.51 mm	150 94V-0	CHANG CHUN PLASTICS CO.,LTD	E59481	锐启达能	
3	INSULATION TAPE Polyester Color :WHITE	35660(a) 1318-1 (a) 1350F-1(b)	0.025 mm	130	SYMBIO INC. 3M COMPANY ELECTRICAL MARKETS DIV (EMD)	E50292 E17385	四维 3M	
4	FIXING TAPE FOR CORE Polyester Color:WHITE	35660(a) 1318-1 (a) 1350F-1(b)	0.025 mm	130	SYMBIO INC. 3M COMPANY ELECTRICAL MARKETS DIV (EMD)	E50292 E17385	四维 3M	
5	Shield COPPER 7.0mm	0.025t PA35	—	—	Shenzhen BOYI pingbitongbo electronics co.,ltd. SYMBIO INC.	— —	深圳博益 四维	
6	WINDING WIRE Polyurethane Enameled Copper Wire UEW 0.1/30 UEW 0.2	MW 75-C MW 79-C	—	130 155	HENG YA ELECTRIC(DONGGUAN) LIMITED PROSPERITY ELECTRIC WIRE & CABLE CO. Chang zhou da yi Electronics co., LTD. ZHÜHAI WEI HAN WIRE CO., LTD.	E197768 E196072 E314752 E339217	恒亚 丰盛 达益 维汉	
7	ADHESIVE	H907-H## 3851+7247	—	130	DONG GUAN SHI PAI HUA CHUANG MATERIAL FTY LOCTITE CO.,LTD	E304477 —	华创 安道	
8	ADHESIVE	H907-H## S-9001-6	—	130	DONG GUAN SHI PAI HUA CHUANG MATERIAL FTY WELLTA ELECTRONIC MATERIAL(XIAMEN) CO., LTD.	E304477 —	华创 朋諾,惠利 泰	
9	VARNISH	BC-346A	—	—	JOHN C.DOLPH CO.	E317427	格瑞	

Layers insulation tape			
No.	Coil	Section	Turns
1	N1	P	2
2	N2	S	1

DRAWER	DRAW NO.	02007G
曾源	DATE	Nov.09.2017

表單編號: 7000P-0118



全漢企業股份有限公司
FSP Group Inc.

P/N: 8TI0200701GP

表單版本:9

MODEL NO:FSP084-DHAN3		TITLE: SPECIFICATION FOR TRANSFORMER & Coil		SHEET: 9 of 12	
[6] RELIABILITY TEST					
No.	Parameter	Test conditions			
1	High Temperature Storage	110±2℃ 96h			
2	Low Temperature Storage	-25±3℃ 96h			
3	Humidity (Steady State)	40±2℃/90~95%RH 96h			
4	Thermal shock in air	-25±3℃,30min⇄20±15℃,2~3min⇄85±2℃,30min ⇄20±15℃,2~3min,5cycle			
5	Vibration (Sinusoidal)	Frequency: f=10~55Hz ,1.5mmp-p Direction: X,Y,Z each 2h , Total 6h.			
6	Resistance to Solder Heat	380±10℃ 3.0 ±0.5s 260±5℃ 10±1s (Lead-free solder)			
7	Solderability	245±2℃ 3.0±0.5s Lead's area coated with solder 95% min			
8	Lead Strength	Pull Test 9.8N 30±5s			
During and after 1~6 tests, no failure should be observed on appearances and electrical characteristics. The judgment of No.7 is carried out as the following conditions. • Solder wetting time(Zero cross time) shall be 3s or less. • 95% minimum observed around the terminal pin. After the test on items No.8 , Thing without loosening and movement of terminal.					
		DRAWER	DRAW NO.	02007H	
		曾源	DATE	Nov.09.2017	

表單編號: 7000P-0118



P/N: 8TI0200701GP

表單版本:9

MODEL NO:FSP084-DHAN3	TITLE:SPECIFICATION FOR TRANSFORMER & Coil	SHEET:10 of 12
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[7] PACKAGE SPECIFICATIONS

Part to be packaged in such a manner as to keep away from humidity and physical damage, and marked as following.

PART No.
QUANTITY
Lot No. of manufacture.
REMARKS/ Lot No. of Marking
MANUFACTURER'S CODE

(1) The Number of contents

a. The number of products per styrofoam case : N/A pieces

b. The number of styrofoam cases per outer card board box : N/A pieces

c. The number of products per outer card board box (aXb) : N/A pieces

(2) Mass

a. Mass per product : (17.8) g

b. Total Mass : (9.13) kg

(3) Package Measurements & Appearance (Unit:mm)

(205)

(340)

(240)

Label

(4) Indication & Notes

a. Stick a "Out-Going-Inspection Data" before shipment on one of the outer boxes for each shipment lot.

b. Indicate "INSPECTION DATA ENCLOSED" on the label side of the package which has the certificate on.

DRAWER	DRAW NO.	02007I
曾源	DATE	Nov.09.2017

表單編號 : 7000P-0118



P/N: 8TI0200701GP

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MODEL NO:FSP084-DHAN3	TITLE: SPECIFICATION FOR TRANSFORMER & Coil		SHEET: 11 of 12
[8] TEMPERATURE HUMIDITY RANGE 8.1 Operation Range Temperature : -30°C ~ +115°C (Generation of heat by the self is contained.) Humidity : 10~95% RH (A maximum wet bulb temperature is 38°C.No condensation.) 8.2 Storage Range Temperature : -25°C ~ +80°C Humidity : 10~95% RH (A maximum wet bulb temperature is 38°C.No condensation.) 8.3 Product preservation time limit Please pay attention to a condition in the page of 「An attention matter on use」. The product preservation time limit of unmounting is one year in environment of temperature 5~40°C and 10~75%RH in humidity. If more then 1 year has passed, confirm the solderability before using. [9] NOTE 9.1 A English sentence is a priority language. 9.2 Ozone Depleting Substances This transformer and manufacturing processes do not use ozone depleting substances. 9.3 Temperature Class : CLASS E. 9.4 Applicable Safety Standard : N/A * Products are not approved to the above standard. But insulation construction and materials are designed in accordance with safety considerations. 9.5 Please return our company one stamping your receipt stamp on the cover of the specifications. When our company cannot return it within two months from the issued day, it is thought that specifications were accepted. 9.6 Please do not do the solvent washing of this product. Moreover, please consult our company beforehand when you use the coating agent for the dampproof that contains solvents such as the acetone, toluenes, and xylenes.			
DRAWER		DRAW NO.	02007J
曾源		DATE	Nov.09.2017

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全漢企業股份有限公司
FSP Group Inc.

P/N: 8TI0200701GP

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MODEL NO:FSP084-DHAN3	TITLE: SPECIFICATION FOR TRANSFORMER & Coil	SHEET: 12 of 12
9.7 Toxic Substance Toxic substance listed below aren't included in this transformer except phenolic compounds and copper compounds. (1) Antimony & compounds (2) Beryllium & compounds (3) Cadmium & compounds (4) Hexavalent chromium compounds (5) Mercury & compounds (6) Selenium & compounds (7) Tellurium & compounds (8) Thallium & compounds (9) Zinc compounds (10) Halide organic solvent (11) Organic solvent except halide solvent (12) Asbestos (13) Silicon & compounds (14) Organic cyanide compounds (15) Inorganic cyanide compounds (16) Organic phosphorus compounds (17) Acid solution or solid acidity (18) Basic solution or solid base (19) Ether (20) Inorganic flurine compounds except calcium fluofide (21) Polychloride dibenzofuranes (22) Polychloride dibenzo-P-dioxins (23) Metal carbonyls (24) PBDPE		
DRAWER		DRAW NO.
曾源		DATE
		02007K
		Nov.09.2017

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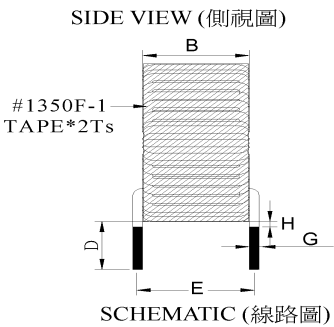
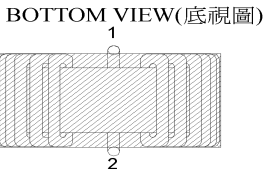
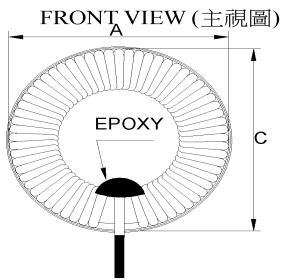
全漢企業股份有限公司

FSP GROUP FSP TECHNOLOGY INC.

P/N : 8LM0327302GP

MODEL NO : FSP096-DMAD1 TITLE : SPECIFICATION FOR FILTER SHEET : 2 OF 4

2. PHYSICAL DIMENSION (UNIT : mm)(外觀圖尺寸圖) :



DIMENSION	A	B	C	D	E	H	G				UNIT
	MAX	MAX	MAX	±0.5	±0.5	MAX	MAX				mm
SPEC	20.8	11.0	20.8	3.7	8.0	1.0	0.85				mm

3.WINDING TABLE & ELECTRICAL CHARACTERISTICS:(繞線結構 & 電氣特性)
TEST INDUCTANCE, TURN RATIO,DCR. (電感,圈數,直流電阻測試)
TEST INSTRUMENT(測試儀器):CH3250 & 1062 CH502
TEST CONDITION (測試條件):20KHz 0.1V
TEMPERATURE (溫度) AT 25℃ HUMIDITY(濕度) AT 65+/-20% RH

WINDING (繞組)	TURNS (圈數)	WIRE		INDUCTANCE (電感)	DCR (直流電阻) m Ω MAX	Q 值 REF	REMARK (備注)
		TYPE (線種)	DIAMETER (線徑)				
N1(1-2)	53.5Ts	2UEW	Φ0.75	169uH±15%	64	36	

注意事項：1.繞線兩層：31.5Ts+22Ts (REF)
2.本體外包膠帶兩圈

CHECK	DRAWER	DATE
JAY	歐鴻錦	JAN.11.2011

表單編號：7000P-0118

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全漢企業股份有限公司

FSP GROUP

FSP TECHNOLOGY INC.

P/N : 8LM0327302GP

MODEL NO : FSP096-DMAD1	TITLE : SPECIFICATION FOR FILTER	SHEET : 3 OF 4
4.INSULATION RESISTANCE AND HI-POT TEST(絕緣電阻與耐電壓測試)		
TEST INSTRUMENT(測試儀器): CH-9053		
TEST ITEM (測試項目)	HI-POT TEST (耐壓測試)	INSULATION RESISTANCE (絕緣電阻)
TEST CONDITION (測試條件)	AC 50/60Hz 0.5mA 3SEC	DC 500V 100MΩ MIN
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NOTE(注意事項):

a. CHOKER COIL MUST BE IMPREGNATED.
電感排線要平整,不能有交叉

b. IT'S MUST BE BONDING WITH EPOXY OF CHOKER ASSEMBLY
必須點膠固定

c. VARNISHING
凡立水含浸

IMPREGNATION OF VARNISH SHALL BE PERFORMED AFTER THE ADHESION PROCESS.
在完成以上工法後要做凡立水含浸

CORE MATERIALS AND DIMENSION:

COLOR CODE
IRON CORE
T68-26A(YELLOW/WHITE)
SAMSON(盛忠)

T68-26A	DIMENSIONS			
	AL	OD	ID	Ht
	nH/N ²	mm	mm	mm
	58	17.5	9.4	6.35

CHECK	DRAWER	DATE
JAY	歐鴻錦	JAN.11.2011

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FSP TECHNOLOGY INC.

P/N : 8LM0327302GP

MODEL NO : FSP096-DMAD1		TITLE : SPECIFICATION FOR FILTER		SHEET : 4 OF 4	
5.MATERIAL LIST(材料表) :					
NO.	ITEM(品名)	MATERIAL(材質)	SUPPLIER(供 應 商)	UL NO	
1	CORE	T68-26A	SAMSON ENTERPRISES LIMITED		
			HENGDIAN GROUP DMEGC MAGNETICS CO.,LTD.		
			MICROMETALS		
2	WIRE	UEW-U	PACIFIC ELECTRIC WIRE&CABLE CO.,LTD	E196993	
		UEWN/U	PACIFIC ELECTRIC WIRE&CABLE		
		UEWS/U	(SHEN ZHEN)CO.,LTD	E201757	
		TYPU-130	TA YA ELECTRIC WIRE&CABLE CO L TD	E84201	
		TYA1-130	TA YA ELECTRIC WIRE&CABLE CO L TD	E84201	
3	VARNISH	468-2(+)	ELANTAS ELECTRICAL INSULATION ELANTAS PDG INC	E75225	
4	TAPE	#1350F-1	3M COMPANY	E17385	
5	EPOXY	G-9008	GUDAK CHEMISTRY TECH.(D.G)LTD		
		H-907	DONG GUAN HUA CHUANG CHEMICAL INDUSTRY CO., LTD		
CHECK DRAWER DATE JAY 歐鴻錦 JAN.11.2011					

表單編號 : 7000P-0118



P/N: 8TV0042803GP 表單版本: 9

MODEL NO: FSP084-DHAN3		TITLE : SPECIFICATION FOR TRANSFORMER										SHEET : 2 OF 8				
二. PHYSICAL DIMENSION (外觀尺寸圖):																
FRONT VIEW(主視圖)							SIDE VIEW(側視圖)									
BOTTOM VIEW(底視圖)							TOP VIEW(頂視圖)									
DIMEN SION	A	B	C	D	D1	E	E1	F	G	G1	H	H1	H2	J	K	UNIT
	MAX	MAX	MAX	±0.3	±0.3	±0.2	±0.2	±0.1	MAX	MAX	±2.0	±2.0	±0.5	±0.5	±0.5	mm
SPEC	36.0	39	22	3.6	3.6	5.0	6.2	36.8	Φ0.9	Φ2.0	25	30	9.0	5.0	8.0	mm
NOTE(注意事項)																
1 PIN7,9 CUT OFF ; PIN 5 CUT OFF 1/2.																
2 CORE 要磨 GAP. 研磨鐵芯裝 PIN 腳端; CORE 中柱直接點 H907-HF-N 膠並烤幹後再含浸																
3. 按上圖所示點 7 點黑膠固定(含 X, Y 線槽黑膠, X, Y 線槽要點在內側, 不要超出骨架邊緣), 且鐵芯接合處的外觀膠需連至線包(詳細如 6.4 圖視), 點好膠後烘幹; CORE 外圍用 TAPE 包 2Ts 固定, 點膠含浸後不拆除																
4. 成品要真空含浸.																
5. 飛線 X 與 Y 的三層絕緣線線腳需全部扭在一起, 絞焊後, 再放進槽中(壓至最底), 然後點膠 G-9008-HF																
6. 其中飛線 H2 尺寸根據實際需求定, 成品主要以 D1 尺寸為準																
7. PIN6,8 腳的掛線工法參考底視圖, 底部鐵心 PIN6 端增加一塊 20mm *20mm 1350F-1 TAPE*2L																
2																
3																
CHECK DRAWER DATE																
YL 伍旭要 FEB.28.2018																

表單編號 : 7000P-0118



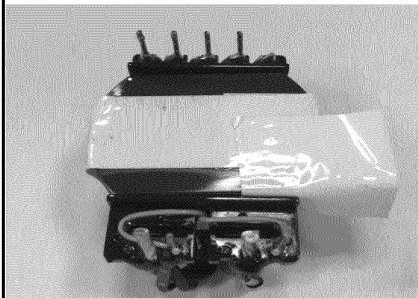
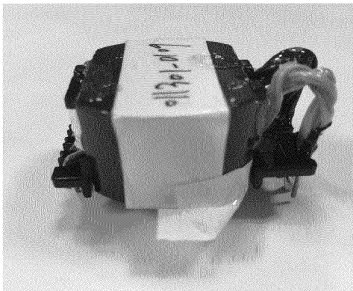
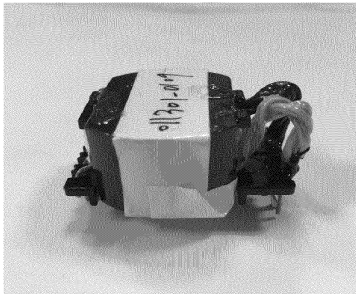
P/N: 8TV0042803GP 表單版本：9

MODEL NO: FSP084-DHAN3		TITLE: SPECIFICATION FOR TRANSFORMER			SHEET : 3 OF 8		
三.SCHEMATIC:(線路圖)				四.WINDING:(剖面圖)			
五..WINDING TABLE(繞線結構表):							
Winding 繞組	Pin 腳位	Wire 線材		Turns 圈數	Tape Layer 膠帶層數	Winding Method 繞線方式	Remark 備 注
		Diameter 線徑	Type 線種				
S1	X→Y	Φ0.45*3P	TRW(B)	4Ts	10.5mm*1Ts	密 繞	
P1	4→3	Φ0.2*4P	2UEW	6Ts	10.5mm*1Ts	均繞滿層	
P2	1→5	Φ0.5	2UEW	14Ts	10.5mm*1Ts	密 繞	
E1	3→	COPPER FOIL0.025t*7mm		0.99Ts	10.5mm*1Ts	置 中	
S2	X→Y	Φ0.45*3P	TRW(B)	4Ts	10.5mm*1Ts	密 繞	
E2	3→	COPPER FOIL0.025t*7mm		0.99Ts	10.5mm*1Ts	置 中	
P3	5→2	Φ0.5	2UEW	18Ts	10.5mm*1Ts	密 繞	
E3	3→	COPPER FOIL0.025t*7mm		0.99Ts	10.5mm*1Ts	置 中	
S3	X→Y	Φ0.45*3P	TRW(B)	4Ts	10.5mm*1Ts	密 繞	
S4	8→6	Φ0.25	TRW(B)	5Ts	10.5mm*3Ts	均 繞	
NOTE:(注意事項)							
1.繞線前空 BOBBIN 需打底二層 TAPE.							
2.所有出入線要加 TEFLON TUBE, 且深入線槽 3mmMIN							
3.S1,S2,S3 的結尾線從頂部飛出,理線時,飛線 X 移到 PIN6-7 之間的孔中,飛線 Y 移到 PIN8-9 之間的孔中,X,Y 均需絞線後再焊錫							
4. 飛線 Y 套黑色鐵氟龍套管, 飛線 X 套透明鐵氟龍套管							
				2			
				CHECK DRAWER DATE			
				YL 伍旭要 FEB.28.2018			

表單編號：7000P-0118



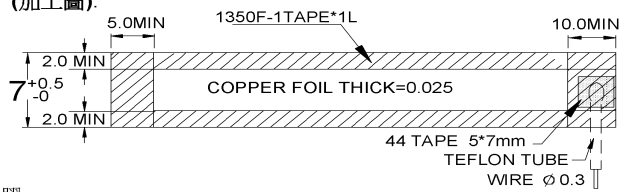
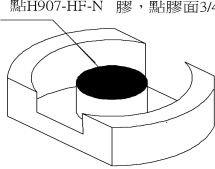
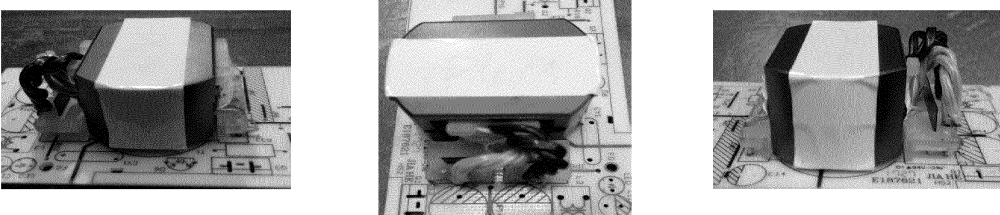
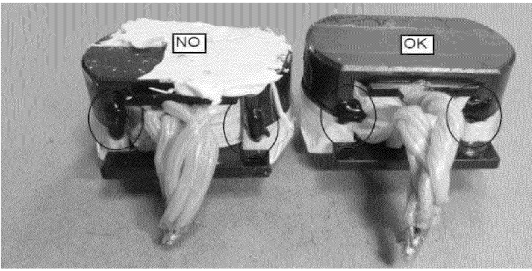
P/N: 8TV0042803GP 表單版本：9

MODEL NO: FSP084-DHAN3	TITLE : SPECIFICATION FOR TRANSFORMER	SHEET : 5 OF 8
六,底部鐵心 PIN6 端包一塊 20mm *20mm 1350F-1 TAPE*2L 的加工方法如下圖		
1.用一塊 20mm *20mm 1350F-1 TAPE*2L對齊飛線 A 插進變壓器鐵芯與 BOBBIN 到底部.後向變壓器鐵芯底部反摺		
		
2.TAPE 向左鐵芯貼齊		
		
3.TAPE 向上反摺固定		
		
CHECK	DRAWER	DATE
YL	伍旭要	FEB.28.2018

表單編號：7000P-0118



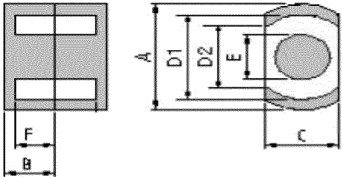
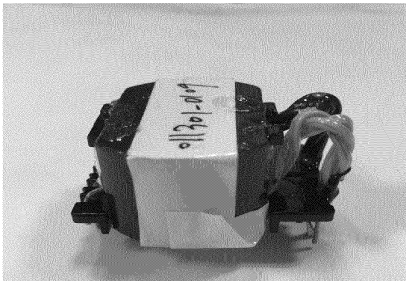
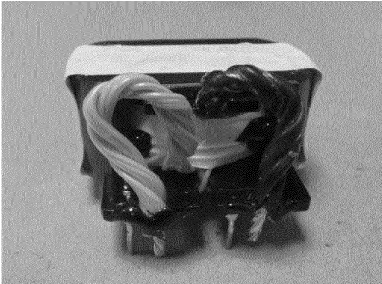
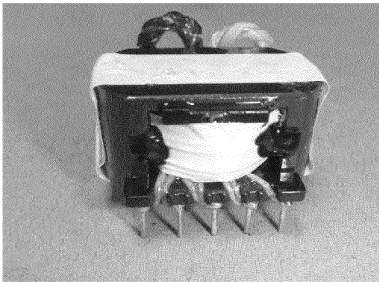
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MODEL NO: FSP084-DHAN3	TITLE : SPECIFICATION FOR TRANSFORMER	SHEET : 4 OF 8
七. EXTRA WORK : (加工圖). 7.1 銅箔加工: 		
7.2. 底部 CORE 中柱點膠 點H907-HF-N 膠，點膠面3/4以上,不超出中柱 		
7.3.點膠前 X,Y 飛線整理圖 		
7.4 外觀膠圖不良品與良品圖對比 		
CHECK	DRAWER	DATE
YL	伍旭要	FEB.28.2018

表單編號 : 7000P-0118



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MODEL NO: FSP084-DHAN3		TITLE : SPECIFICATION FOR TRANSFORMER		SHEET : 5 OF 8															
八. CORE 尺寸圖																			
		<table><tr><td>A</td><td>33.20 ±0.50</td></tr><tr><td>B</td><td>9.40 ±0.15</td></tr><tr><td>C</td><td>23.70 ±0.30</td></tr><tr><td>D1</td><td>26.60 ± 0.40</td></tr><tr><td>D2</td><td>17.80 MIN</td></tr><tr><td>E</td><td>13.50 ± 0.20</td></tr><tr><td>F</td><td>6.50 ± 0.15</td></tr></table>				A	33.20 ±0.50	B	9.40 ±0.15	C	23.70 ±0.30	D1	26.60 ± 0.40	D2	17.80 MIN	E	13.50 ± 0.20	F	6.50 ± 0.15
A	33.20 ±0.50																		
B	9.40 ±0.15																		
C	23.70 ±0.30																		
D1	26.60 ± 0.40																		
D2	17.80 MIN																		
E	13.50 ± 0.20																		
F	6.50 ± 0.15																		
九. 成品圖 (參考用)																			
																			
		<table><tr><td>CHECK</td><td>DRAWER</td><td>DATE</td></tr><tr><td>YL</td><td>伍旭要</td><td>FEB.28.2018</td></tr></table>				CHECK	DRAWER	DATE	YL	伍旭要	FEB.28.2018								
CHECK	DRAWER	DATE																	
YL	伍旭要	FEB.28.2018																	

表單編號 : 7000P-0118



P/N: 8TV0042803GP 表單版本：9

MODEL NO: FSP084-DHAN3		TITLE : SPECIFICATION FOR TRANSFORMER			SHEET : 6 OF 8	
十.ELECTRICAL CHARACTERISTICS:(電氣特性)						
10.1 TEST INDUCTANCE, LEAKAGE INDUCTANCE ,TURN RATIO,DCR. (電感,漏電感,圈數,直流電阻測試).						
TEST INSTRUMENT(測試儀器):CH3250 CH502						
TEST CONDITION (測試條件):20KHz 0.1V						
TEMPERATURE (溫度) AT 25℃ HUMIDITY(濕度) AT 65+/-20% RH						
WINDING (繞組)	PIN (腳位)	TURNS (圈數)	INDUCTANCE (電感)	DCR(直流電阻) mΩMAX	Q 值 MIN	REMARK (備注)
S1	X→Y	4Ts	7uH±30%	30		
P1	4→3	6Ts	15.8uH±30%	95		
P2	1→5	14Ts				
S2	X→Y	4Ts	7uH±30%	30		
P3	5→2	18Ts				
S3	X→Y	4Ts	7uH±30%	30		
S4	8→6	5Ts	11uH±30%	246		
LP	1→2	32Ts	450uH±5%	268	20	
LEAKAGE INDUCTANCE(漏電感)LK(1→2)			15uH MAX	SHORT PIN: X,Y, 6, 8		
10.2 INSULATION RESISTANCE AND HI-POT TEST(絕緣電阻與耐電壓測試)						
TEST INSTRUMENT(測試儀器): CH-9053						
TEST ITEM (測試項目)		HI-POT TEST (耐壓測試)		INSULATION RESISTANCE (絕緣電阻)		
TEST CONDITION (測試條件)		AC 50/60Hz 1.0mA 3SEC		DC 500V 100MΩ MIN		
PRI(初級)---SEC(次級)		3600V AC		• •		
PRI(初級)---CORE(鐵心)		600V AC		• •		
SEC(次級)---CORE(鐵心)		3600V AC		• •		
				CHECK	DRAWER	DATE
				YL	伍旭要	FEB.28.2018

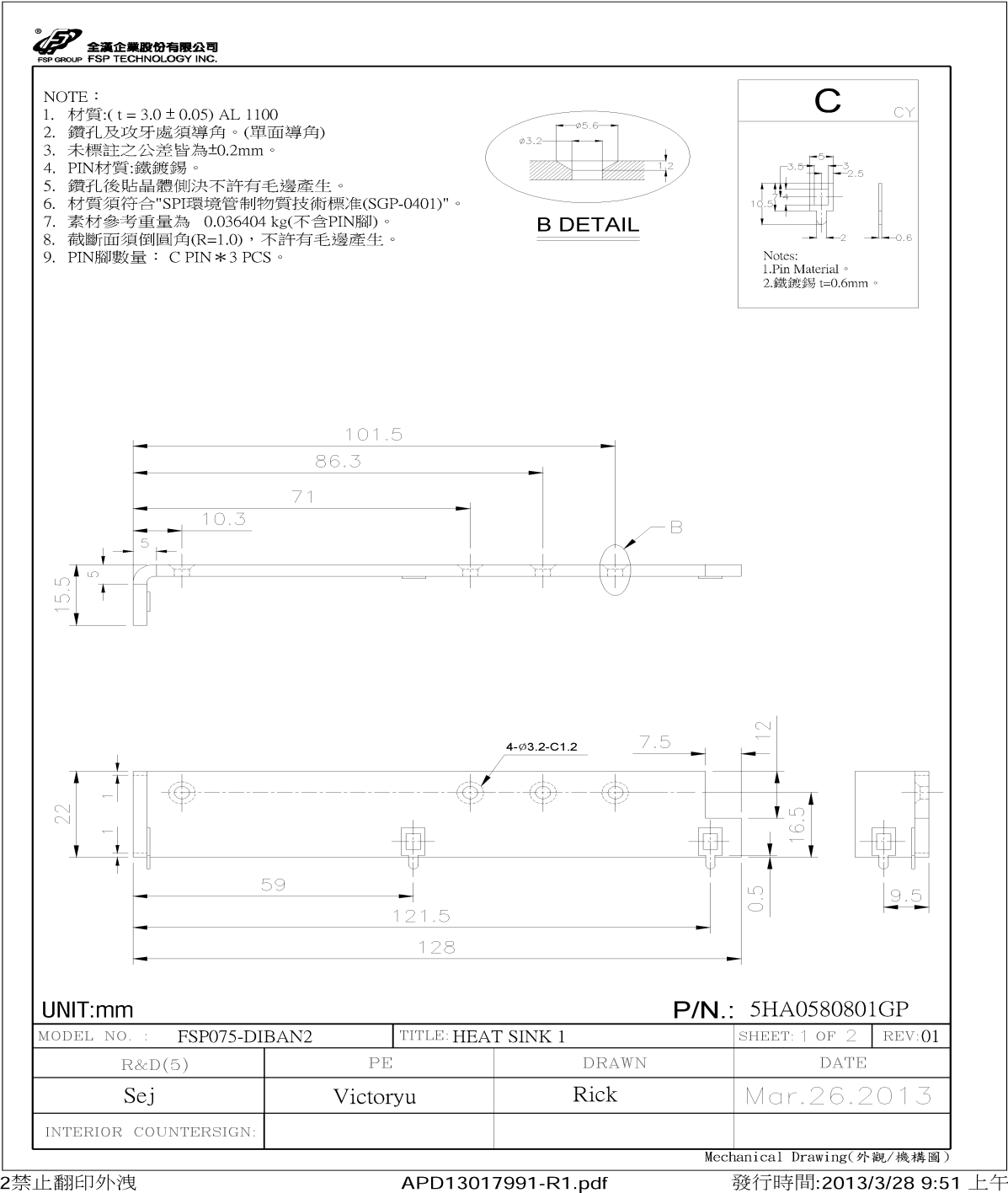
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P/N: 8TV0042803GP 表單版本 : 9

MODEL NO: FSP084-DHAN3		TITLE : SPECIFICATION FOR TRANSFORMER		SHEET : 8 OF 8			
十二・BOBBIN 尺寸圖							
			<table border="1"><tr><td>型号</td><td>POT-3323</td></tr></table>			型号	POT-3323
型号	POT-3323						

File E190414 Vol. 6 Sec. 15 ILL-8 Issued: 2018-04-24
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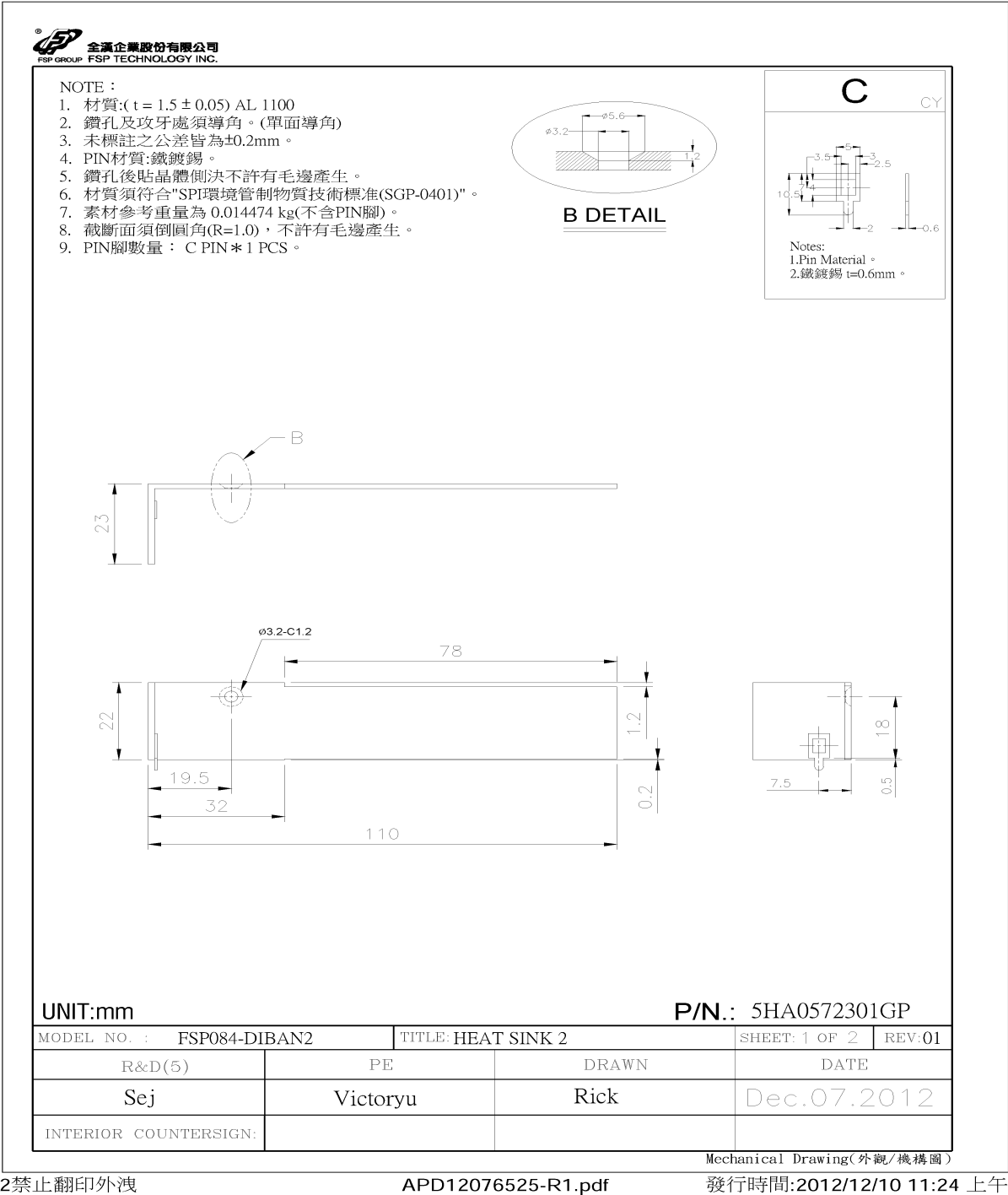


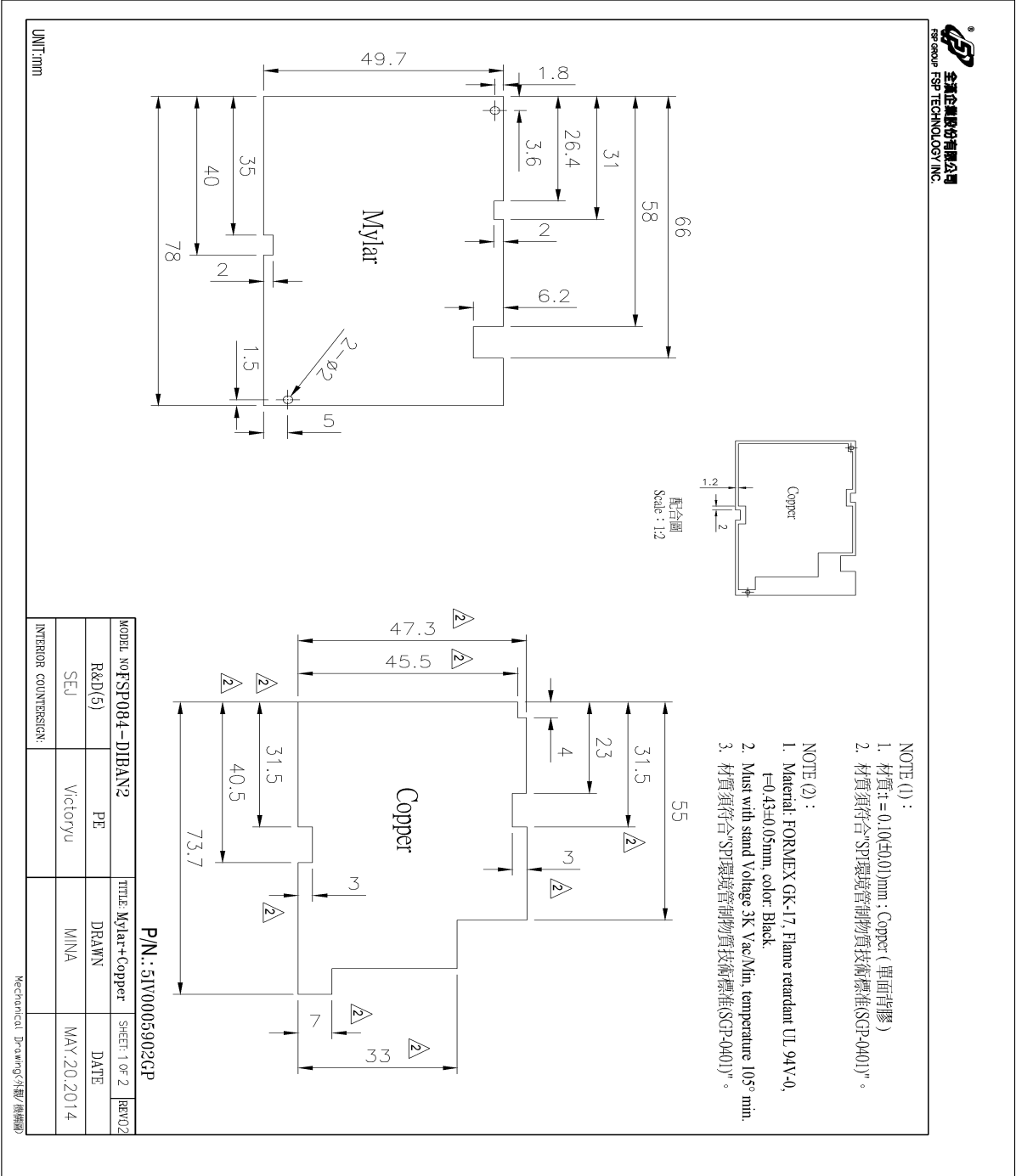
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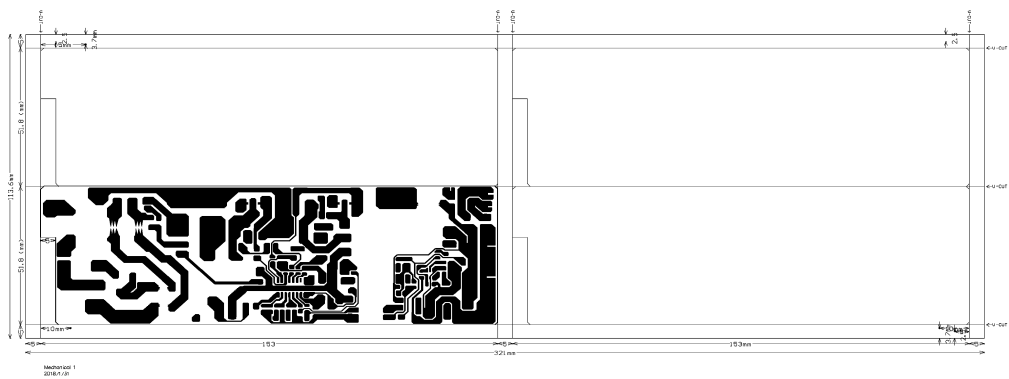
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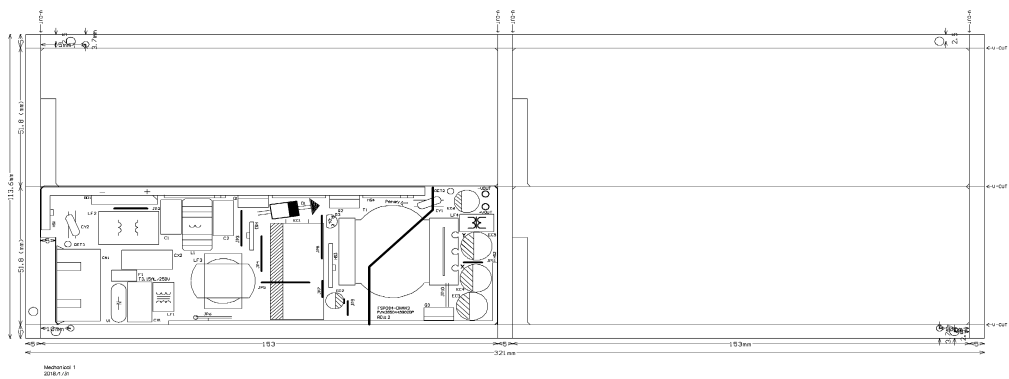




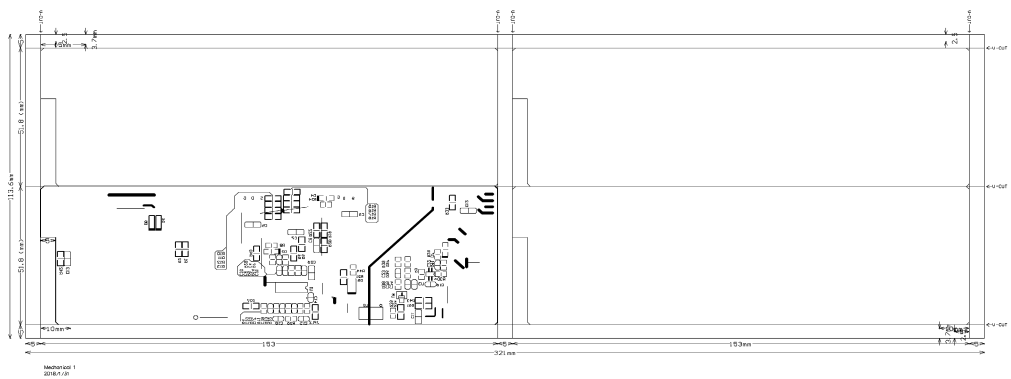
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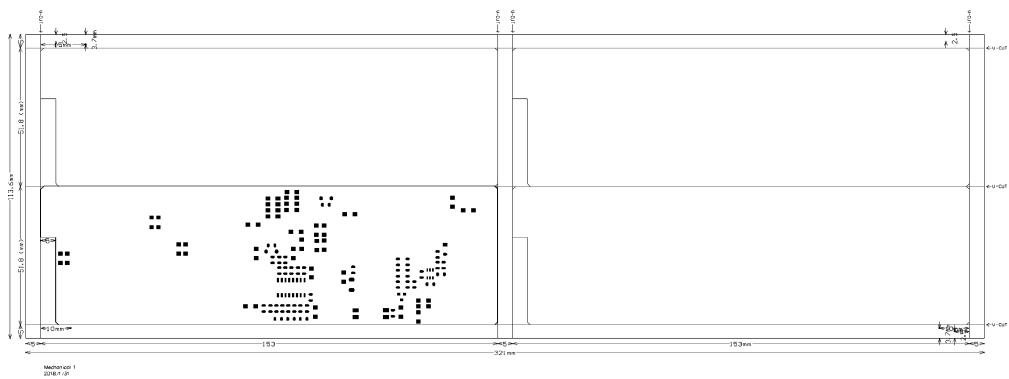
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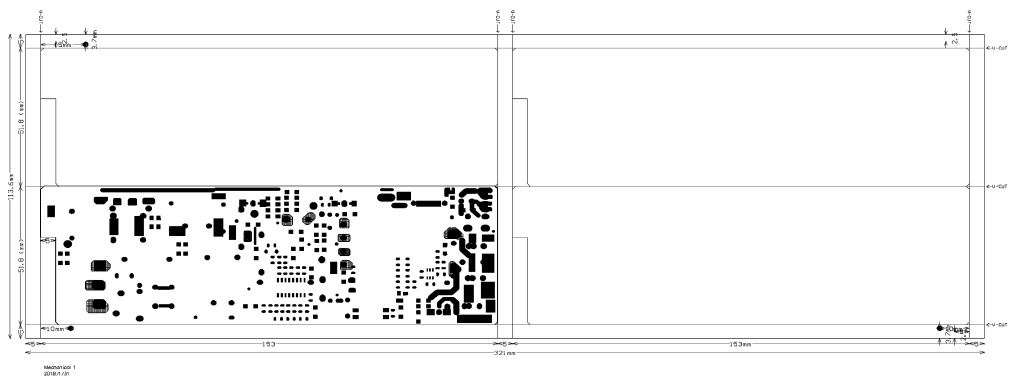
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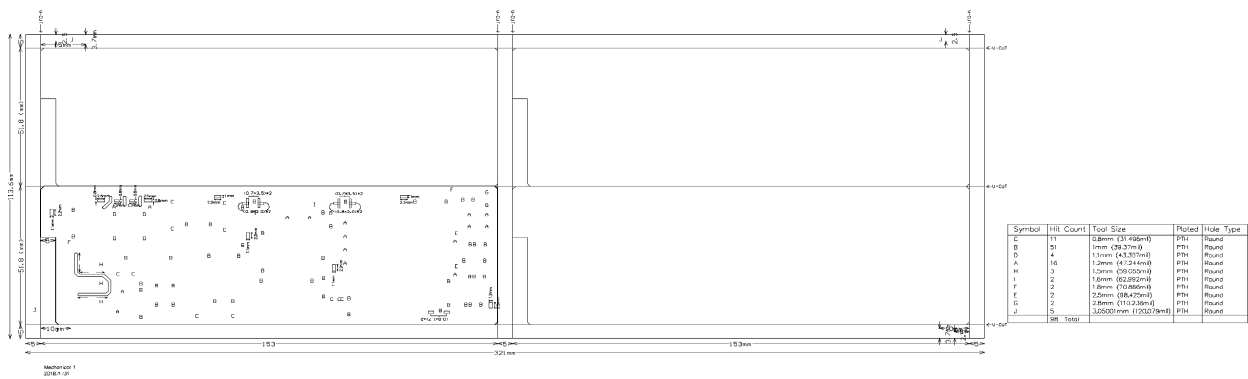


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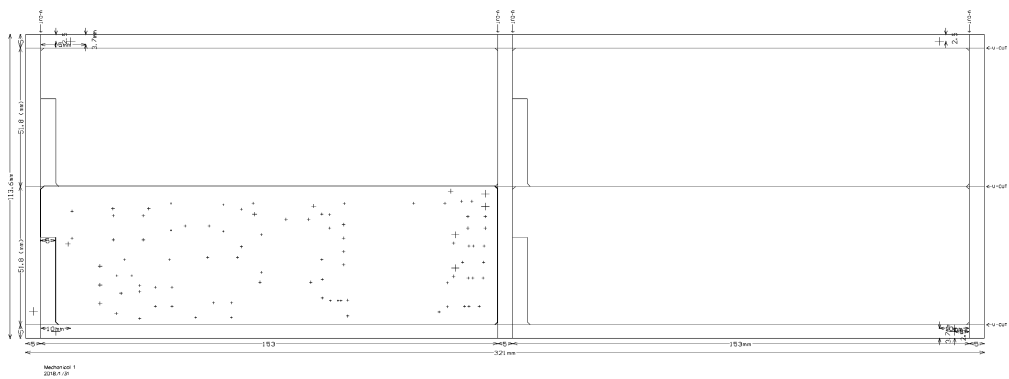


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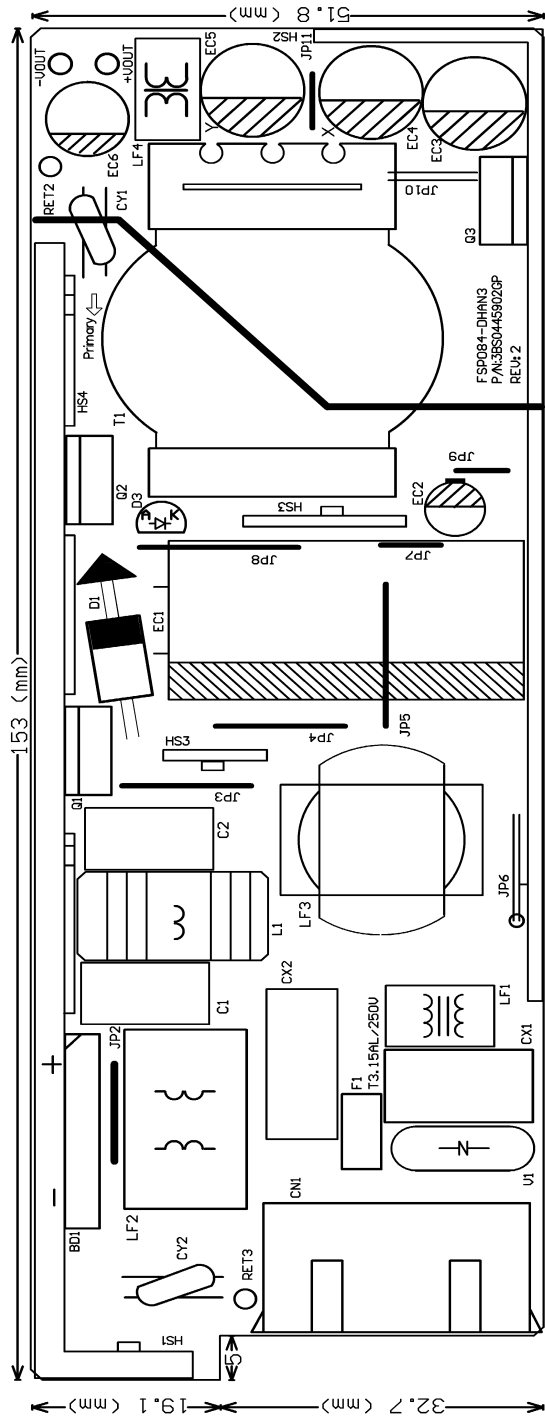




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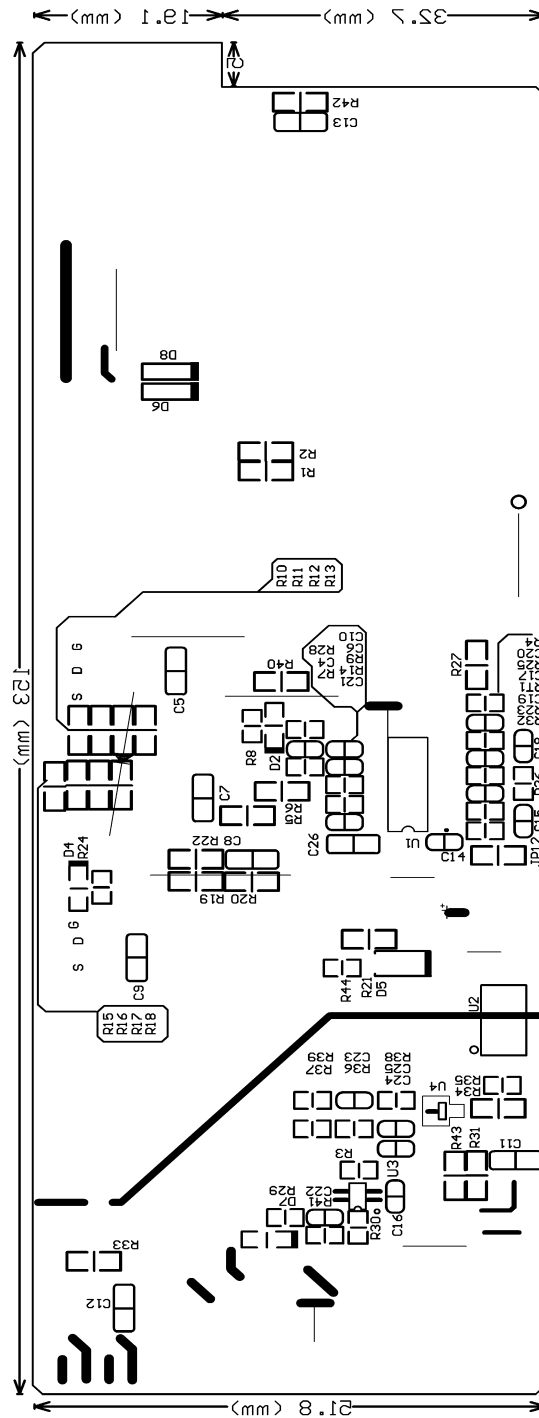


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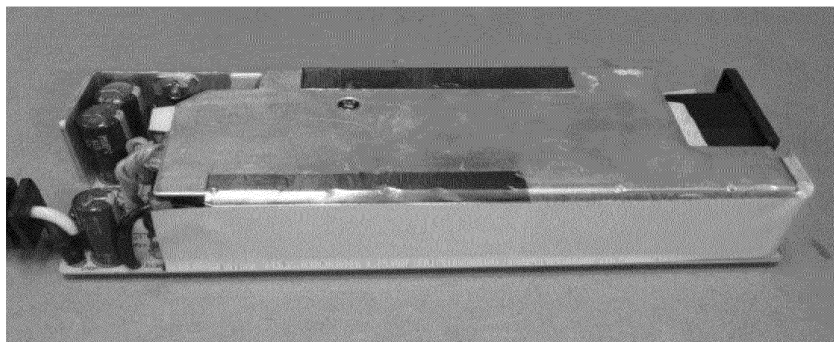
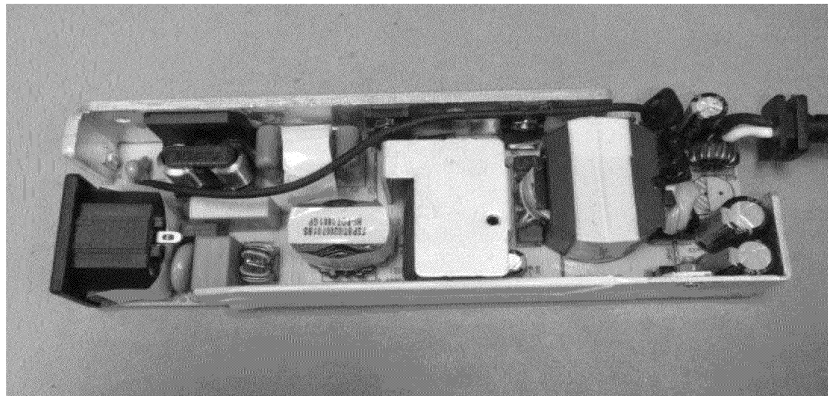
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【附件一】 FSP075-DHAN3 生產作業注意事項

如下圖所示:

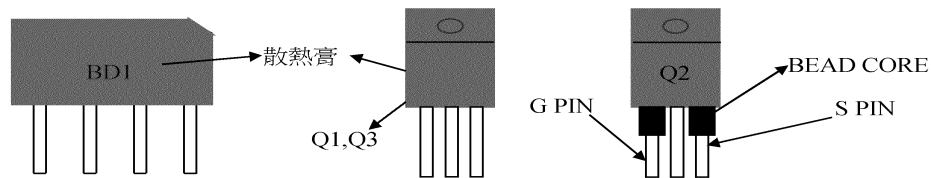


1. EC1 作業:

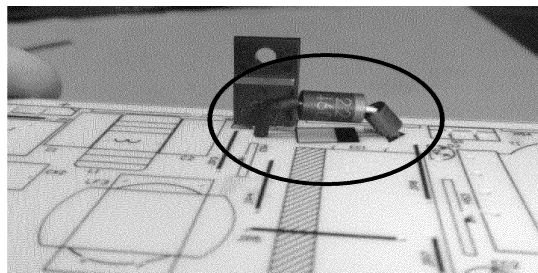
插件時,請將兩 PIN 腳,彎成 90 度(從兩 PIN 腳距本體 1mm 處彎下),並使其本體橫躺插入 PCB 面!

2. Q1,Q2 BD1 ,Q3 塗上散熱膏之作業:

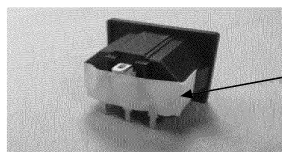
Q1, Q2,BD1 ,Q3 鎖入散熱片與插件前,須先於本體背後塗上些許散熱膏,再將本體鎖入散熱片,完成上述動作後,再於 Q2 之 G、S 腳串上 BEAD CORE 請串到底,並用白膠將其固定之, BD1 須先於本體背後塗上些許散熱膏,後緊貼於散熱片!
如下附圖所示!



3. D1 插件前,須先於陽極端 PIN 套上熱縮套管(1.5 Ø *10mm),陰極端 PIN 需打彎,再將本體插入 PCB!
D1 插件前需於陰極端先串上 BEAR CORE,並且白膠將其固定!
插件後本體要能與絲印相披配,如下附圖所示!



4. INLET(CN1)加貼 TAPE 作業如下圖所示：



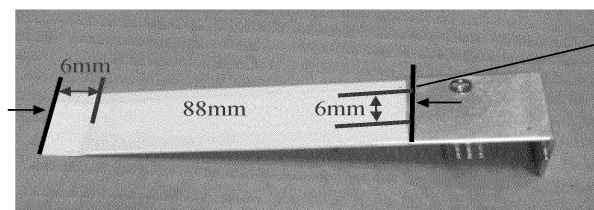
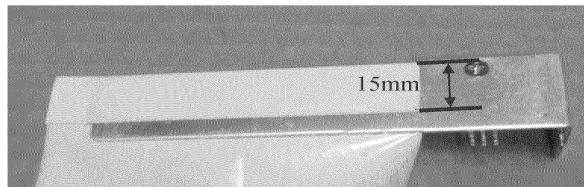
先以製具裁切成 12mm*47mm 並重複黏貼為 2 層後取下,用 TAPE 貼附在 INLET 上,如左圖所示,其長度為(10+27+10=47mm*2). 用量為:94/66000=0.001424RL, TAPE (1 LAYERS), 寬度 12mm !

5. HS2 需貼 MY TAPE (1LAYERS)，寬度 50mm，貼法如下：

先以製具裁切成 55mm*88mm 並重複黏貼為 2 層後取下，其貼法如下，

從散熱片上緣下凹 15mm 處齊平，開始貼起，順勢往下纏繞，依反時針方向纏繞一圈疊合，疊合處需在外側，其疊合面需 6mm，且 ATPE 末端需超出本體 6mm 如下附圖所示！

此項安規特別要求



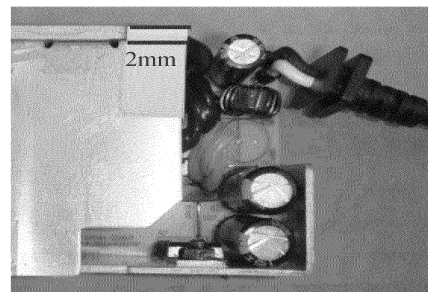
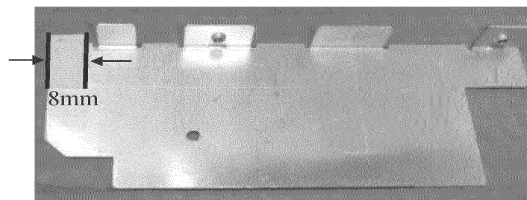
從散熱片上緣下凹 15mm 處齊平，反時針方向下纏繞一圈疊合，疊合處需在外側，其疊合面需 6mm 且 ATPE 末端需超出本體 6mm 如左圖所示：

此項安規特別要求

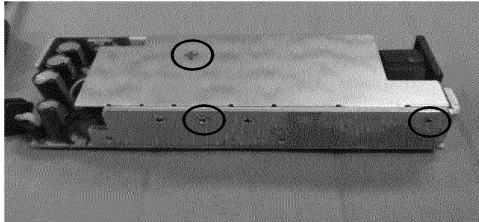
6. HS4 加貼 TAPE 之作業如下附圖：

將 TAPE 裁切成 20*18mm 並重複黏貼為 2 層後取下，切齊 HS4 內面 8mm 處，平貼反折至 HS4 另一端即可！

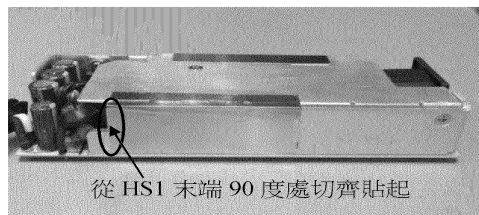
其 TAPE 超出 HS4 邊緣處需 2mm 重疊黏貼(業如下附圖)，此項安規特別要求 MY TAPE (1 LAYERS)，寬度 20mm！



7. HS4 鎖螺絲與貼銅箔之作業: (如下圖所示)

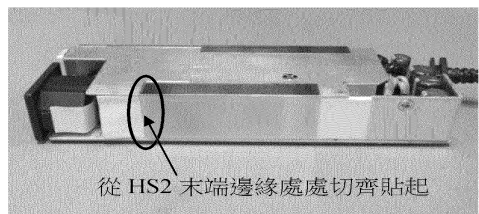


組裝 HS4,要確實對準螺絲孔位鎖緊



從 HS1 末端 90 度處切齊貼起

導電銅箔貼法：從 HS1 末端切齊下緣
往上貼至 HS4



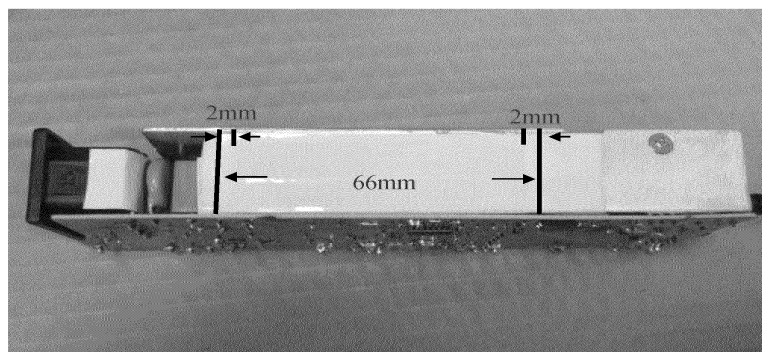
從 HS2 末端邊緣處處切齊貼起

導電銅箔貼法：從 HS2 末端切齊下緣
往上貼至 HS4

8. HS2 加貼 TAPE 之作業如下附圖:

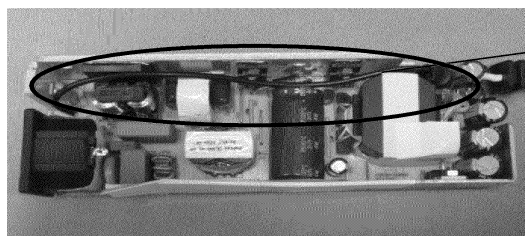
將 TAPE 裁切成 20*66mm 並重複黏貼為 2 層後取下,

從 HS2 下緣切齊, 超出銅箔邊緣 (2mm), 平貼至另一端切齊, 超出銅箔邊緣(2mm)即可,
MY TAPE (1 LAYERS), 寬度 20mm! 此項安規特別要求

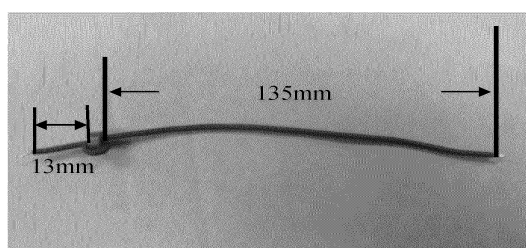


9. FG 線加熱縮套管之作業:

FG 線插件前,須於本體套上熱縮套管($2\varnothing * 175\text{mm}$),
其走線方式如下圖所示:



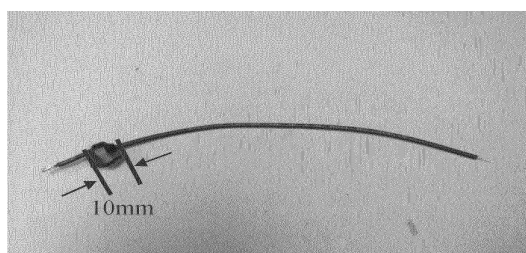
FG 線走線方式,須繞過
L3、BD1、HS1、L4、C3、
Q1、Q2、T1 之間再插入
PCB 面!



FG 線先串上 CORE,
需纏繞一圈(1Ts)

靠近(INLET)穿過 CORE 線
長度為 135mm!

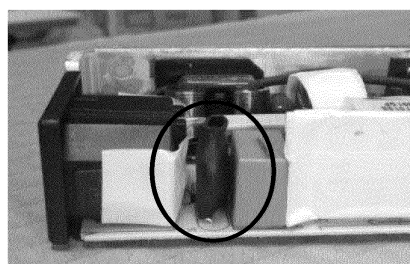
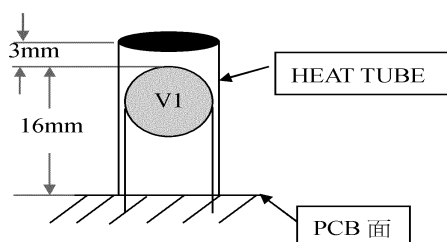
後段穿過 CORE 不含裸線
長度為 13mm



F.G 線加 CORE 需纏繞一圈,且需套上
熱縮套管($10\varnothing * 10\text{mm}$)

10. V1 加熱縮套管之作業:

V1 插件前須於本體套上熱縮套管($10\varnothing * 19\text{mm}$)如下圖所示:



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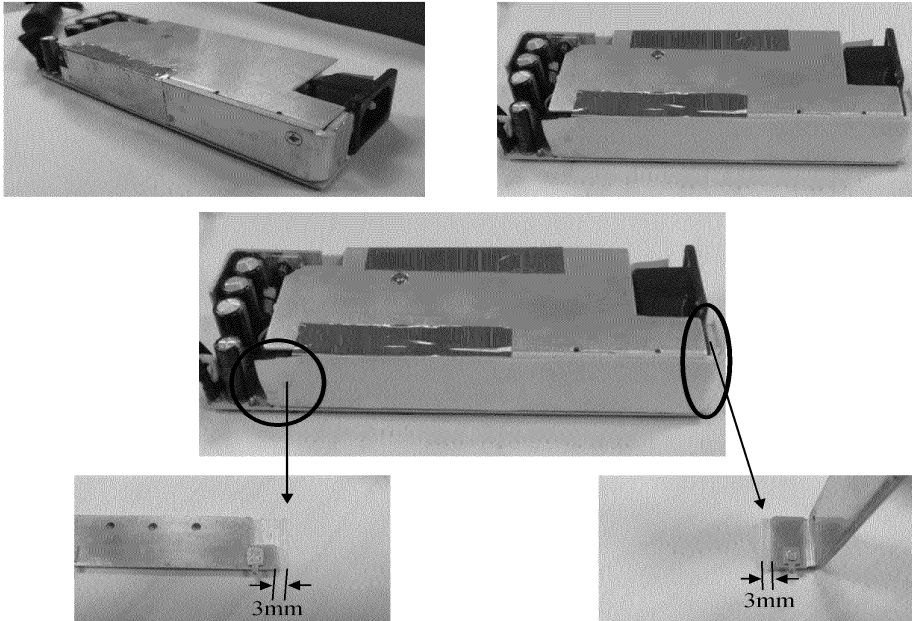
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11. HS1 加貼 MY TAPE 之作業如下附圖:

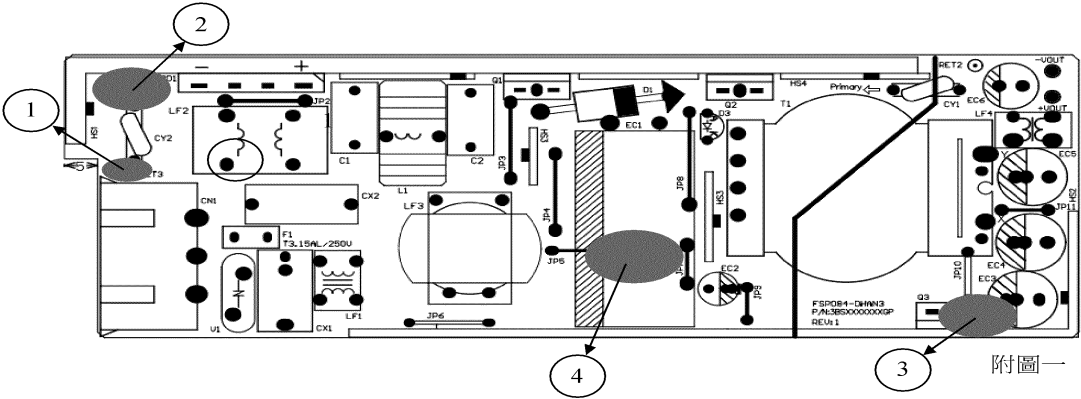
將 TAPE 裁切成 22*150mm 並重複黏貼為 2 層後取下,
切齊 HS1 邊緣超出(3mm)平貼至另一端切齊超出(3mm)即可,
MY TAPE (1 LAYERS) , 寬度 22mm !

貼附銅箔後加貼 TAPE



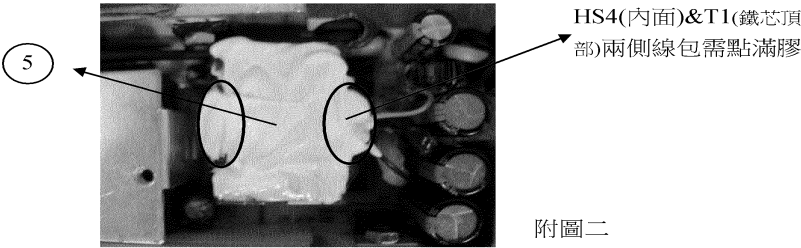
切齊 HS1 邊緣超出(3mm)平貼至另一端切齊超出(3mm)即可 !

【附件二】



FSP075-DHAN3 膠位置圖

RTV 固定膠 6JE0002400GP	1. RET3&PCB 2. PCB&CASE 3. PCB&CASE
導熱固定膠 6JE0001419GP	4. EC1&PCB 5. HS4 (內面)&T1(鐵芯頂部)與兩側線包需點滿膠(請參考附圖二)



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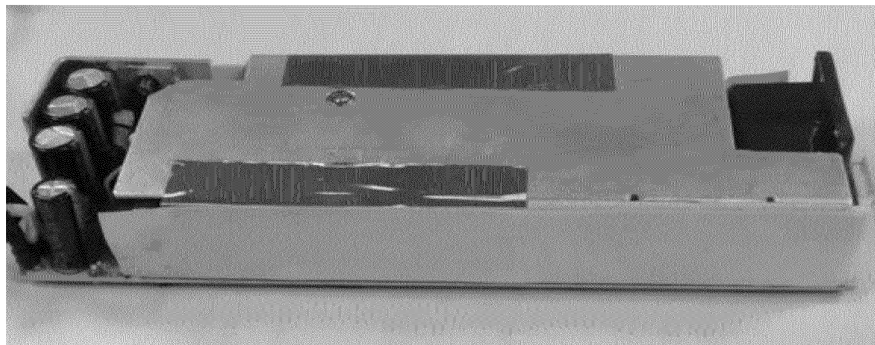
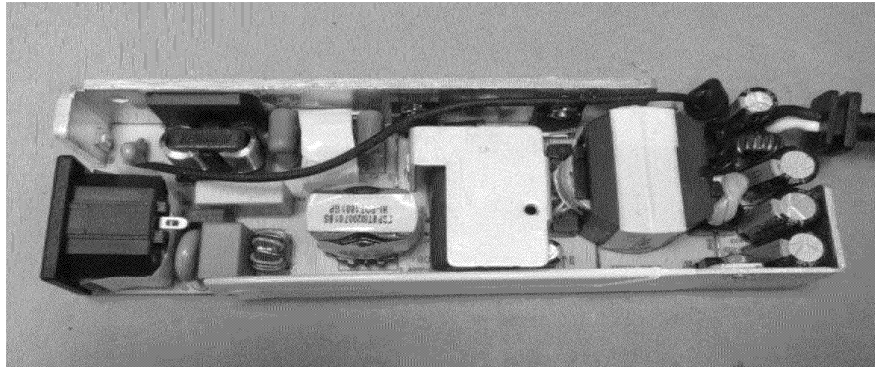
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【附件一】 FSP084-DHAN3 生產作業注意事項

如下圖所示:



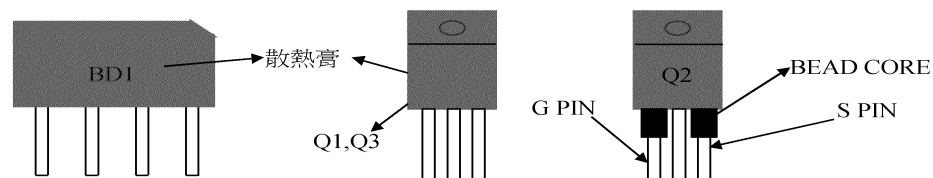
1. EC1 作業:

插件時,請將兩 PIN 腳,彎成 90 度(從兩 PIN 腳距本體 1mm 處彎下),並使其本體橫躺插入 PCB 面!

2. Q1,Q2,BD1,Q3 塗上散熱膏之作業:

Q1, Q2,BD1,Q3 鎖入散熱片與插件前,須先於本體背後塗上些許散熱膏,再將本體鎖入散熱片,完成上述動作後,再於 Q2 之 G、S 腳串上 BEAD CORE 請串到底,並用白膠將其固定之, BD1 須先於本體背後塗上些許散熱膏,後緊貼於散熱片!

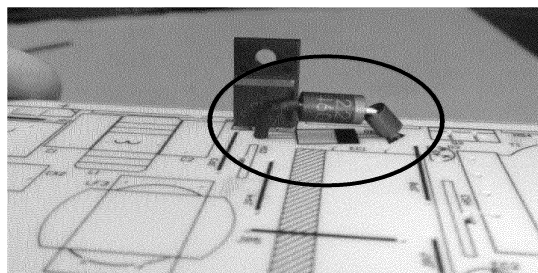
如下附圖所示!



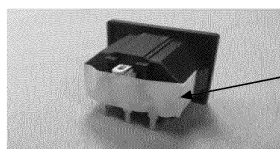
3. D1 插件前,須先於陽極端 PIN 套上熱縮套管(1.5 Ø *10mm),陰極端 PIN 需打彎,再將本體插入 PCB!

D1 插件前需於陰極端先串上 BEAR CORE,並且白膠將其固定!

插件後本體要能與絲印相披配,如下附圖所示!



4. INLET(CN1)加貼 TAPE 作業如下圖所示:



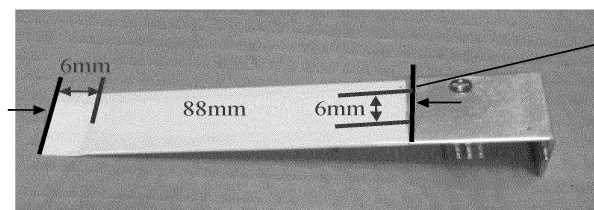
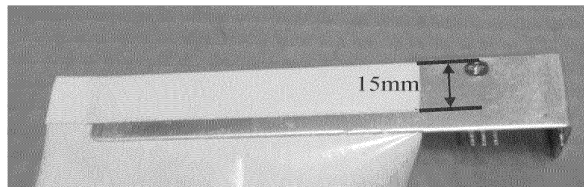
先以製具裁切成 12mm*47mm 並重複黏貼為 2 層後取下,用 TAPE 貼附在 INLET 上,如左圖所示,其長度為(10+27+10=47mm*2). 用量為:94/66000=0.001424RL, TAPE (1 LAYERS), 寬度 12mm !

5. HS2 需貼 MY TAPE (1LAYERS)，寬度 50mm，貼法如下：

先以製具裁切成 55mm*88mm 並重複黏貼為 2 層後取下，其貼法如下，

從散熱片上緣下凹 15mm 處齊平，開始貼起，順勢往下纏繞，依反時針方向纏繞一圈疊合，疊合處需在外側，其疊合面需 6mm，且 ATPE 末端需超出本體 6mm 如下附圖所示！

此項安規特別要求



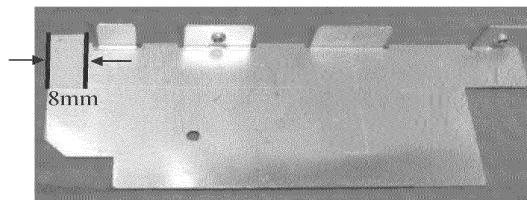
從散熱片上緣下凹 15mm 處齊平，反時針方向下纏繞一圈疊合，疊合處需在外側，其疊合面需 6mm 且 ATPE 末端需超出本體 6mm 如左圖所示：

此項安規特別要求

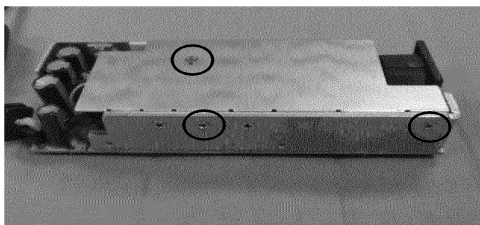
6. HS4 加貼 TAPE 之作業如下附圖：

將 TAPE 裁切成 20*18mm 並重複黏貼為 2 層後取下，切齊 HS4 內面 8mm 處，平貼反折至 HS4 另一端即可！

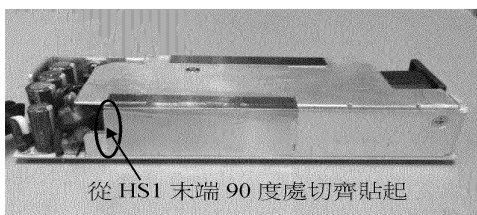
其 TAPE 超出 HS4 邊緣處需 2mm 重疊黏貼(業如下附圖)，此項安規特別要求 MY TAPE (1 LAYERS)，寬度 20mm！



7. HS4 鎖螺絲與貼銅箔之作業: (如下圖所示)



組裝 HS4,要確實對準螺絲孔位鎖緊



導電銅箔貼法：從 HS1 末端切齊下緣
往上貼至 HS4

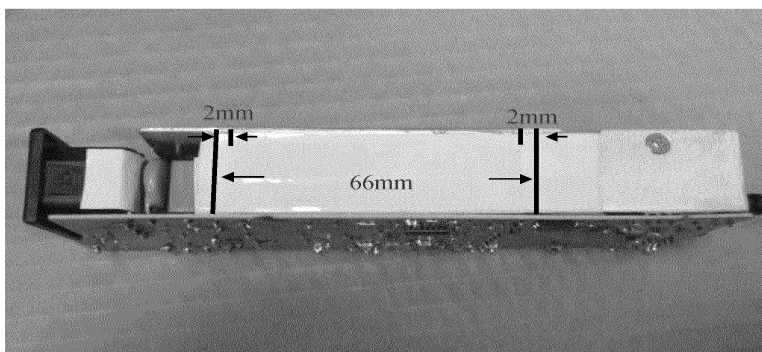


導電銅箔貼法：從 HS2 末端切齊下緣
往上貼至 HS4

8. HS2 加貼 TAPE 之作業如下附圖:

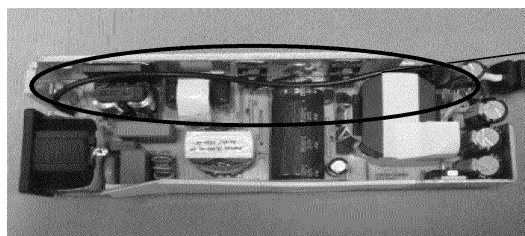
將 TAPE 裁切成 20*66mm 並重複黏貼為 2 層後取下,

從 HS2 下緣切齊, 超出銅箔邊緣 (2mm), 平貼至另一端切齊, 超出銅箔邊緣(2mm)即可,
MY TAPE (1 LAYERS), 寬度 20mm ! 此項安規特別要求

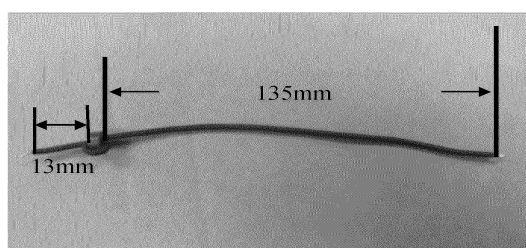


9. FG 線加熱縮套管之作業:

FG 線插件前,須於本體套上熱縮套管($2\varnothing * 175\text{mm}$),
其走線方式如下圖所示:



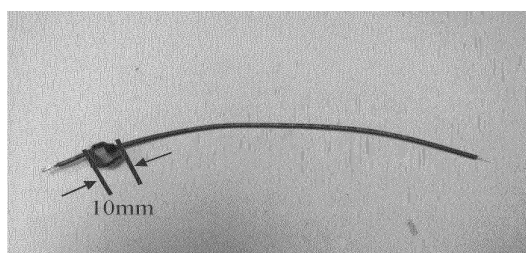
FG 線走線方式,須繞過
L3、BD1、HS1、L4、C3、
Q1、Q2、T1 之間再插入
PCB 面!



FG 線先串上 CORE,
需纏繞一圈(1Ts)

靠近(INLET)穿過 CORE 線
長度為 135mm!

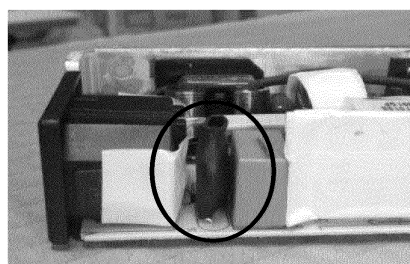
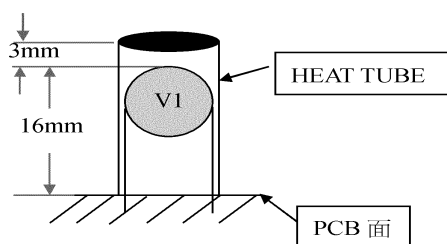
後段穿過 CORE 不含裸線
長度為 13mm



F.G 線加 CORE 需纏繞一圈,且需套上
熱縮套管($10\varnothing * 10\text{mm}$)

10. V1 加熱縮套管之作業:

V1 插件前須於本體套上熱縮套管($10\varnothing * 19\text{mm}$)如下圖所示:



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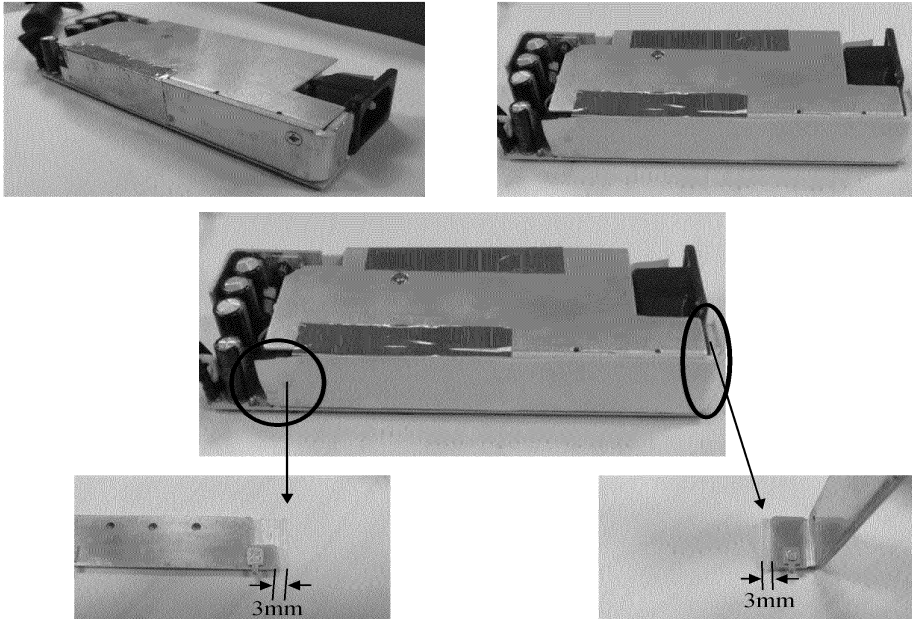
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11. HS1 加貼 MY TAPE 之作業如下附圖:

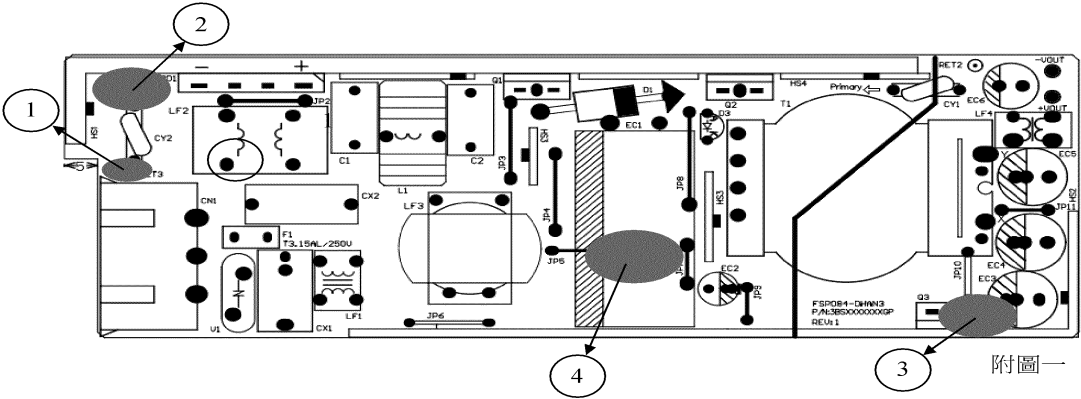
將 TAPE 裁切成 22*150mm 並重複黏貼為 2 層後取下,
切齊 HS1 邊緣超出(3mm)平貼至另一端切齊超出(3mm)即可,
MY TAPE (1 LAYERS) , 寬度 22mm !

貼附銅箔後加貼 TAPE



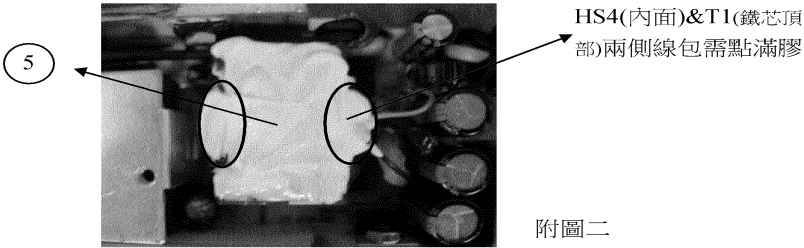
切齊 HS1 邊緣超出(3mm)平貼至另一端切齊超出(3mm)即可 !

【附件二】



FSP084-DHAN3 膠位置圖

RTV 固定膠 6JE0002400GP	1. RET3&PCB 2. PCB&CASE 3. PCB&CASE
導熱固定膠 6JE0001419GP	4. EC1&PCB 5. HS4 (內面)&T1(鐵芯頂部)與兩側線包需點滿膠(請參考附圖二)



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TEST RECORD NO. 1

SAMPLES:

Representative production samples of Switching Power Adapter, model FSP075-DHAN3, PUP75N3-12yyyyy, FSP075-DHBN3, PUP75N3S-12yyyyy, FSP084-DHAN3, PUP84N3-12yyyyy, FSP084-DHBN3, PUP84N3S-12yyyyy where "y"=0-9, A-Z, hyphen or blank was submitted for review as outlined in the:

Standard for UL 62368-1, 2nd Edition, 2014-12-01 (Audio/video, Information and Communication Technology Equipment - Part 1: Safety Requirements) and

CSA C22.2 No. 62368-1-14, 2nd Edition, 2014-12 (Audio/video, Information and Communication Technology Equipment - Part 1: Safety Requirements)

GENERAL:

The manufacturer submitted representative production of Switching Power Adapter under fully investigation.

Unless otherwise noted in the below list of tests, all tests were conducted by FSP GROUP INC located at 22 JIANGUO E RD, TAOYUAN CITY, 330 TAIWAN under CTDP.

Only one condition of 5.7 - PROSPECTIVE TOUCH VOLTAGE AND TOUCH CURRENT MEASUREMENT conducted by Underwriters Laboratories Taiwan Co., Ltd at 4th & 5th Fl., No. 35, Sec. 2, ChungYang S. Road, Peitou, Taipei City 112, Taiwan.

The test methods and results of the above tests have been reviewed and found in accordance with the requirements in CSA C22.2 No. 62368-1-14, 2nd Edition, 2014-12 (Audio/video, Information and Communication Technology Equipment - Part 1: Safety Requirements), UL 62368-1, 2nd Edition, 2014-12-01 (Audio/video, Information and Communication Technology Equipment - Part 1: Safety Requirements).

Test Record Summary:

The results of this investigation, including construction review and testing, indicate that the products evaluated comply with the applicable requirements in the standards noted below and, therefore, such products are judged eligible to bear UL's Mark as described on page one of this Report. Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL.

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CONCLUSION

A sample of the product covered by this Report has been found to comply with the requirements covering the category and the product is found to comply with UL's applicable requirements. The description and test result in this Report are only applicable to the sample(s) investigated by UL and does not signify UL certification or that the product(s) described are covered under UL's Follow-Up Service Program. When covered under UL's Follow-Up Service Program, the manufacturer is authorized to use the UL Listing Mark on such products which comply with UL's Follow-Up Service Procedure and any other applicable requirements of UL LLC. The Listing Mark of UL LLC on the product, or the UL symbol on the product and the Listing Mark on the smallest unit container in which the product is packaged, is the only method to identify products investigated by UL to published requirements and manufactured under UL's Listing and Follow-Up Service.

This Report is intended solely for the use of UL LLC (UL) and the Applicant for establishment of UL certification coverage of the described product(s) under UL's Follow-Up Service. UL retains all rights, title and interest (including exclusive ownership) in this Report and all copyright therein. The Applicant or its designated agent shall not disclose or otherwise distribute this Report or its contents to any third party, except as required for purposes of compliance with laws, regulations, or other existing agreements or schemes in which UL is currently a participant. Any other use of this Report including, without limitation, evaluation or certification by a party other than UL is prohibited and renders this Report null and void. UL shall not incur any obligation or liability for any loss, expense, or punitive damages, arising out of, or in connection with, the use or reliance upon the contents of this Report to anyone other than the Applicant as provided in the agreement between UL and Applicant. Any use or reference to UL's name or certification mark(s) by anyone other than the Applicant in accordance with the agreement is prohibited without the express written approval of UL. Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. UL shall not otherwise be responsible to anyone for the use of or reliance upon the contents of this Report.

Report by:

Reviewed by:

Lance Chou
Engineer Project Associate

Patrick Tsai
Senior Project Engineer