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名翔電子有限公司

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MSTRONIC CO LTD
2ND FL 12 GONGSHANG RD
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NEW TAIPEI
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Date: 2013/04/30
Subscriber: 100221991
PartySite: 1229579
File No: E314090
Project No: 13CA19651
PD No: 13Q03446
Type: R
PO Number: 102-0332

Subject: **Procedure And/Or Report Material**

The following material resulting from the investigation under the above numbers is enclosed.

Issue

<u>Date</u>	<u>Vol</u>	<u>Sec</u>	<u>Pages</u>	<u>Revised Date</u>
	X1		Index Page(s)	
2007/09/17	X1	A3	Cert of Compliance	
2007/09/17	X1	A3	Revised Proc/Rpt Section	

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Please file revised pages and illustrations in place of material of like identity. New material should be filed in its proper numerical order.

NOTE: Follow-Up Service Procedure revisions DO NOT include Cover Pages, Test Records and Conclusion Pages. Report revisions DO NOT include Authorization Pages, Indices, Section General Pages and Appendixes.

Please review this material and report any inaccuracies to UL's Customer Service Professionals. Contact information for all of UL's global offices can be found at <http://www.ul.com/global/eng/pages/corporate/contactus>.

If you'd like to receive updated materials FASTER, UL offers electronic access and/or delivery of this material. For more details, contact UL's Customer Service Professionals as shown above.

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TPI File

File		Volume	Page	Date:
E314090	Index	X1	1	2013-04-30

Index

<u>Product Type</u>	<u>Model/Type Reference</u>	<u>Report Reference #</u>	<u>Status</u>
POE SPLITTER	MS-POE-PD0805M, 1603 PoE Splitter (5V)	E314090-A1-UL	
Power Over Ethernet Device	MIT-06I-WWVVCC, where WW can be 08 or 12; VV can be 05, 09, 12 or 24; C can be 0-9, a-z, A-Z or blank. The WW means power in watt; VV means output voltage in volt and CC means different parts suppliers.	E314090-A2-UL	
Power Over Ethernet Device	MIT-07XXXXXX-1748CC, MIT-07XXXXXX-2024CC, MIT-07XXXXXX-1818CC and MIT-07XXXXXX-2448CC (Where C can be 0-9, a-z, A-Z or blank and X can be D, T, R, CI, H, N, J or blank, D means signal detector and T means signal processor, R means reverse, H means hi-temp and CI means current indicator, N, J and blank means alternate daughter board, N for iss:9, J for iss:10, blank for iss:8, CC means different parts suppliers)	E314090-A3-UL	
Power Over Ethernet Device	MIT-09x-56z, (Where x=G or blank and z= D or blank)	E314090-A5-UL	

CERTIFICATE OF COMPLIANCE

Certificate Number 20130430-E314090
Report Reference E314090-A3-UL
Issue Date 2013-APRIL-30

Issued to: MSTRONIC CO LTD
2ND FL 12 GONGSHANG RD
WUGU
NEW TAIPEI
248 TAIWAN

This is to certify that representative samples of Information Technology Equipment Including Electrical Business Equipment
See Addendum Page

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 60950-1, Information Technology Equipment - Safety - Part 1: General Requirements
CSA C22.2 No. 60950-1-07, Information Technology Equipment - Safety - Part 1: General Requirements

Additional Information: See the UL Online Certifications Directory at www.ul.com/database for additional information

Only those products bearing the UL Listing Mark for the US and Canada should be considered as being covered by UL's Listing and Follow-Up Service meeting the appropriate requirements for US and Canada.

The UL Listing Mark for the US and Canada generally includes: the UL in a circle symbol with "C" and "US" identifiers:  the word "LISTED"; a control number (may be alphanumeric) assigned by UL; and the product category name (product identifier) as indicated in the appropriate UL Directory.

Look for the UL Listing Mark on the product.



William R. Carney, Director, North American Certification Programs
UL LLC

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CERTIFICATE OF COMPLIANCE

Certificate Number	20130430-E314090
Report Reference	E314090-A3-UL
Issue Date	2013-APRIL-30

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Power Over Ethernet Device, Models: MIT-07XXXXXX-1748CC, MIT-07XXXXXX-2024CC, MIT-07XXXXXX-1818CC and MIT-07XXXXXX-2448CC (Where C can be 0-9, a-z. A-Z or blank and X can be D, T, R, CI, H, N, J or blank, D means signal detector and T means signal processor, R means reverse, H means hi-temp and CI means current indicator, N, J and blank means alternate daughter board, N for iss:9, J for iss:10, blank for iss:8, CC means different parts suppliers)



William R. Carney, Director, North American Certification Programs
UL LLC

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UL TEST REPORT AND PROCEDURE

Standard:	UL 60950-1, 2nd Edition, 2011-12-19 (Information Technology Equipment - Safety - Part 1: General Requirements) CSA C22.2 No. 60950-1-07, 2nd Edition, 2011-12 (Information Technology Equipment - Safety - Part 1: General Requirements)
Certification Type:	Listing
CCN:	NWGQ, NWGQ7 (Information Technology Equipment Including Electrical Business Equipment)
Product:	Power Over Ethernet Device
Model:	MIT-07XXXXXX-1748CC, MIT-07XXXXXX-2024CC, MIT-07XXXXXX-1818CC and MIT-07XXXXXX-2448CC (Where C can be 0-9, a-z. A-Z or blank and X can be D, T, R, CI, H, N, J or blank, D means signal detector and T means signal processor, R means reverse, H means hi-temp and CI means current indicator, N, J and blank means alternate daughter board, N for iss:9, J for iss:10, blank for iss:8, CC means different parts suppliers)
Rating:	Input: 100-240 Vac, 0.5A max, 47-63Hz. Output: MIT-07XXXXXX-1748CC, +48V/0.35A/17W MIT-07XXXXXX-2024CC, +24V/0.8A/20W MIT-07XXXXXX-1818CC, +18V/1.0A/18W MIT-07XXXXXX-2448CC, +48V/0.5A/24W
Applicant Name and Address:	MSTRONIC CO LTD 2ND FL 12 GONGSHANG RD WUGU NEW TAIPEI 248 TAIWAN

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.

The applicant is authorized to reproduce the referenced Test Report provided it is reproduced in its entirety.

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Prepared by: Lance Chou

Reviewed by: Stanley 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 -
 - i. 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.
 - ii. 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.
 - iii. Part AF 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

Power over Ethernet device is used for information technology network equipment. The device supplies DC power and connects Ethernet network equipment, such as the Access Point, Hub, Router, Personal computer and so on.

Model Differences

All models are similar except for the output voltage and different transformers (T1), output diode, capacitor used.

Model MIT-07XXXXXX-1748CC is similar to Model MIT-07XXXXXX-2448CC except for different output current.

Technical Considerations

- Equipment mobility : movable
- Connection to the mains : pluggable A
- Operating condition : continuous
- Access location : operator accessible
- Over voltage category (OVC) : OVC II
- Mains supply tolerance (%) or absolute mains supply values : +10%, -10%
- Tested for IT power systems : No
- IT testing, phase-phase voltage (V) : N/A
- Class of equipment : Class I (earthed)
- Considered current rating of protective device as part of the building installation (A) : 20A
- Pollution degree (PD) : PD 2
- IP protection class : IP X0
- Altitude of operation (m) : Up to 2000 m
- Altitude of test laboratory (m) : less than 2000 meters
- Mass of equipment (kg) : 0.14Kg max.
- The product was submitted and evaluated for use at the maximum ambient temperature (Tma) permitted by the manufacturer's specification of: 50 °C

- The means of connection to the mains supply is: Pluggable A, Detachable power cord
- The product is intended for use on the following power systems: TN
- The equipment disconnect device is considered to be: Appliance inlet
- The following circuit locations (with circuit/schematic designation) were investigated as a limited power source (LPS): Output connector (RJ45)
- The following are available from the Applicant upon request: Installation (Safety) Instructions / Manual
- PoE considered a Network Environment 0 per IEC TR62101, and thus the interconnected ITE circuits may be considered SELV. The installation instructions clearly state that the ITE is to be connected only to PoE networks without routing to the outside plant.

Additional Information

For 13CA19651

- Upgrade standards to UL 60950-1, 2nd Edition, including revision dated 2011-12-19.
- Revise Model names to Models MIT-07XXXXXX-1748CC, MIT-07XXXXXX-2024CC, MIT-07XXXXXX-1818CC and MIT-07XXXXXX-2448CC (Where C can be 0-9, a-z, A-Z or blank and X can be D, T, R, CI, H, N, J or blank, D means signal detector and T means signal processor, R means reverse, H means hi-temp and CI means current indicator, N, J and blank means alternate daughter board, N for iss:9, J for iss:10, blank for iss:8, CC means different parts suppliers).
- Add two daughter boards, for N marked iss:9 and J marked iss:10.

Markings and instructions

Clause Title	Marking or Instruction Details
Inter-connecting cables - External detachable	Listee's Name and Part number (Marking or Instruction)
Power rating - Ratings	Ratings (voltage, frequency/dc, current)
Power rating - Company identification	Listee's or Recognized company's name, Trade Name, Trademark or File Number
Power rating - Model	Model Number
Fuses - Rating	Rated current and voltage and type located on or adjacent to fuse or fuseholder.

Special Instructions to UL Representative

Inspect the transformer(s) listed in Production-Line Testing Requirements per AA1.1- (C).
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

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 modes	T1	--	Pri - Sec	300 0	4242	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:

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

Sample and Test Specifics for Follow-Up Tests at UL

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

1.5.1	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
1. Plastic enclosure	Tejjin Polycarbonate Singapore	LN-1250G	Rated 94V-1,105°C,min Thickness 1.0mm	--	UL	3-01
2.Printed Wiring Board	Various	Various	Rated minimum V-1, 130°C. Mounted on stands minimum 4.0mm high from chassis.	ZPMV2	UL	3-03
3.Appliance Inlet (P1)	Supercom wire & Cable Co., Ltd.	SC-14	Rated minimum 2.5 A, 250 Vac. 70°C, Secured to chassis by screws or snap-fit.	AXUT2	UL	3-06
4.Fuse (F1)	Conquer Electronic	PTU	T1AH, 250 Vac.	JDYX2	UL	3-06
5.Bleeder Resistors (R1,R2)	Various	Various	Each rated 1Mohms, 1/4 W. SMD type	--	--	3-06
6.Y-Capacitors (C2,C3)	Matsushita	NS-A	Y1 rated maximum 1000 pF, minimum 250 Vac, 105°C The damp heat test duration in 21 days minimum. Comply IEC 60384-14	FOKY2	UL	
7.Bridge Capacitor (C9)	Matsushita	NS-A	Y1 rated maximum 2200 pF, minimum 250 Vac, 105°C The damp heat test duration in 21 days minimum. Comply IEC 60384-14	FOKY2	UL	
8.X-Capacitors (C1)	Sheng Chang	CTX	X1 rated maximum 0.47 μ F, minimum 250 Vac, 105°C The damp heat test duration in 21 days minimum. Comply IEC 60384-14	FOKY2	UL	
9.Line Choke (L1)	--	--	Rated minimum 130°C.	--	--	

9-1Core	--	--	EE type, Ferrite, overall Measured 17.2mm by 16.5mm by 5.1mm	--	--	
9-2 Coil	Various	Various	Rated minimum 130°C.	OBMW2	UL	
9-3 Bobbin	Chang Chun Plastics Co.	PBT-4115	Rated minimum V-0, 150°C.minimum 0.75 mm	QMFZ2	UL	
10.Transformer (T1, for Model MIT-07XXXXXX- 1818CC)	Taiwan Transmore Electronics Co., Ltd.	13-01MIT07- 18VU	--	--	--	4-01
10-1. Insulation system	Taiwan Transmore Electronics Co., Ltd.	B130	Class B	OBJY2	UL	
10-2Triple insulation wire (Secondary)	Furukawa Electric Co.,	TEX-E	Rated minimum 130°C.	OBJT2	UL	
10-2a Triple insulation wire (Secondary) (Alternate)	Jung Shing Wire Co., Ltd.	UEW-2	Rated minimum 130°C.	OBJT2	UL	
10-3 Wire	Various	Various	Rated minimum 130°C.	OBMW2	UL	
10-4. Core	--	--	Ferrite, toroidal diameter maximum 25.6 mm by 20.1mm by 6.3mm	--	--	
10-5. Bobbin	Chang Chun Plastics Co.	T375J	Rated minimum V-0, 150°C. Phenolic. minimum 0.8mm thick	--	--	
10-6. Insulation tape	Symbio Inc.	35660	Polyester Tape, rated 130°C.	OANZ2	UL	
10-7. Varnish	John C. Dolph Co.	BC-346A	Rated minimum 180°C.	--	--	
11.Transformer (T1, for Model MIT-07XXXXXX-	Taiwan Transmore Electronics Co., Ltd.	13-01MIT07- 24VU	--	--	--	4-02

2024CC)						
11-1. Insulation system	Taiwan Transmore Electronics Co., Ltd.	B130	Class B	OBJY2	UL	
11-2Triple insulation wire (Secondary)	Furukawa Electric Co.,	TEX-E	Rated minimum 130°C.	OBJT2	UL	
11-2a Triple insulation wire (Secondary) (Alternate)	Jung Shing Wire Co., Ltd	UEW-2	Rated minimum 130°C.	OBJT2	UL	
11-3 Wire	Various	Various	Rated minimum 130°C.	OBMW2	UL	
11-4. Core	--	--	Ferrite, toroidal diameter maximum 25.6 mm by 20.1mm by 6.3mm	--	--	
11-5 Bobbin	Chang Chun Plastics Co.	T375J	Rated minimum V-0, 150°C. Phenolic. minimum 0.8mm thick	--	--	
11-6 Insulation tape	Symbio Inc.	35660	Polyester Tape, rated 130°C.	OANZ2	UL	
11-7 Varnish	John C. Dolph Co.	BC-346A	Rated minimum 180°C.	--	--	
12.Transformer (T1, for Models MIT-07XXXXXX-1748CC and MIT-07XXXXXX-2448CC)	Taiwan Transmore Electronics Co., Ltd.	13-01MIT07-48VU	--	--	--	4-03
12-1. Insulation system	Taiwan Transmore Electronics Co., Ltd.	B130	Class B	OBJY2	UL	
12-2Triple insulation wire (Secondary)	Furukawa Electric Co.,	TEX-E	Rated minimum 130°C.	OBJT2	UL	

12-2a Triple insulation wire (Secondary) (Alternate)	Jung Shing Wire Co., Ltd.	UEW-2	Rated minimum 130°C.	OBJT2	UL	
12-3 Wire	Various	Various	Rated minimum 130°C.	OBMW2	UL	
12-4. Core	--	--	Ferrite, toroidal diameter maximum 25.6 mm by 20.1mm by 6.3mm	--	--	
12-5 Bobbin	Chang Chun Plastics Co.	T375J	Rated minimum V-0, 150°C. Phenolic. minimum 0.8mm thick	--	--	
12-6. Insulation Tape	Symbio Inc.	35660	Polyester Tape, rated 130°C.	OANZ2	UL	
12-7. Varnish	John C. Dolph Co.	BC-346A	Rated minimum 180°C.	--	--	
13.Optical Isolators (PL1)	Sharp Corp., Electronic Components Group	PC817	Maximum Power: Diode/Detector: 150mW/300mW, Isolation: 5000Vac, 100 degree C.	FPQU2	UL	
14.Optical Isolators (PL1) (Alternate)	Everlight Electronics	EL817	Maximum Power: Diode/Detector: 70mW/150mW, Isolation: 5000Vac, 100 degree C.	FPQU2	UL	3-06
15.Bridge Rectifier (BD1)	Various	Various	Rated minimum 1A, minimum 600 Vac, 130 degree C	--	--	3-06
16.N-Mosfet (Q1)	Various	Various	Rated minimum 8A, minimum 600 Vac, 130 degree C	--	--	
17.Insulation Tape	3M Company	1350-1	Polyester tape, rated minimum 130°C.	OANZ2	UL	
18.Mylar-Sheet	Garware Polyster	ER	VTM-2, 105°C.	QMFZ2	UL	3-05
19. Label	Various	Various	Min. 72 degree C	PGDQ2 or PGJ12	UL	

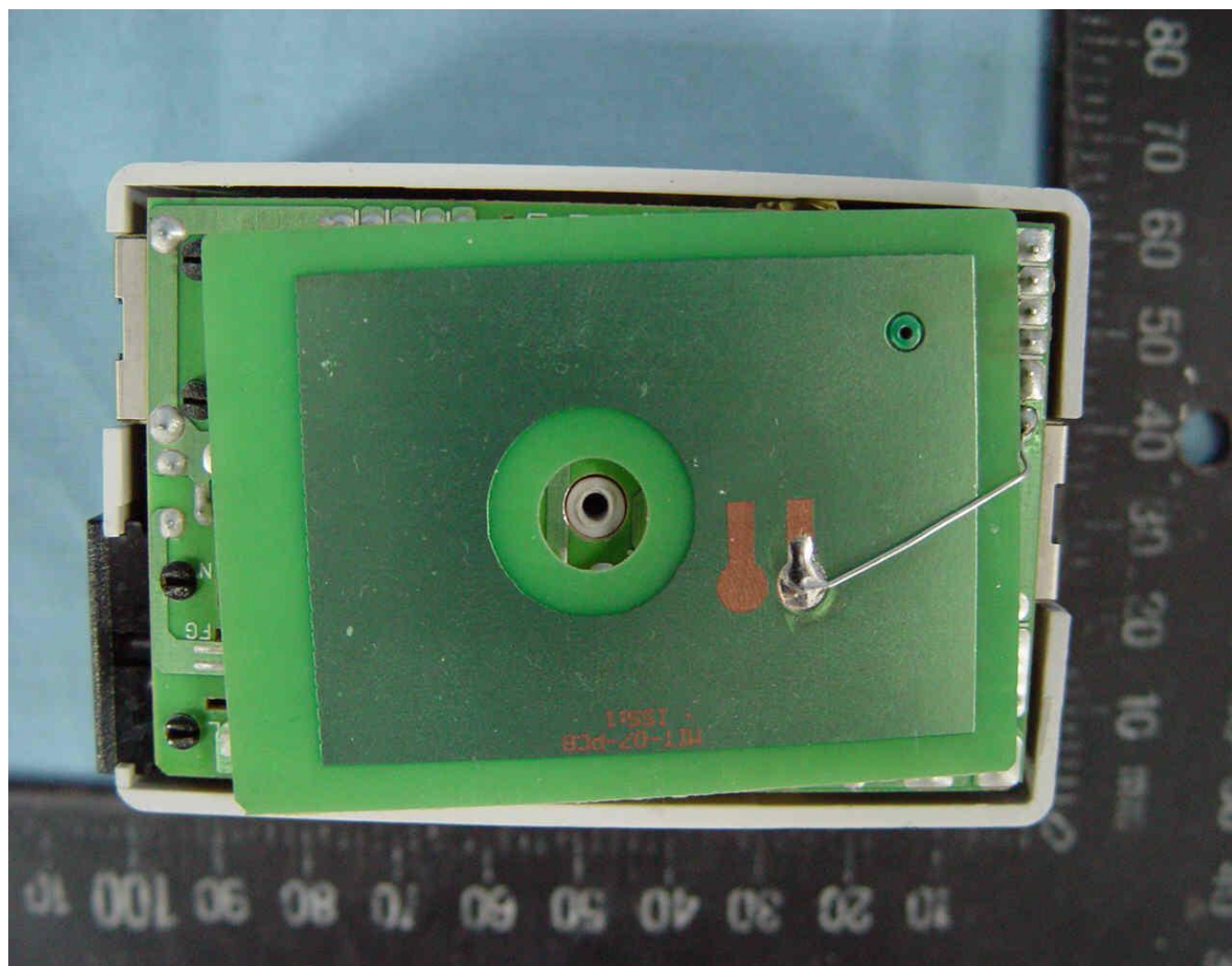
20. Tubing Extruded Insulating	Sumitomo Electric Fine Polymer	Sumitube F32	600V, 125°C provided on Heatsink JR1 ,Bridge Cap. C50, body and lead	YDPU2	UL	3-12
21. Wiring, internal	--	--	FEP, PTFE, PVC, TFE, neoprene, polyimide or marked VW-1 or FT-1; minimum 30 V, 60 degree C	AVLV2	UL	
22. Connectors and Receptacles (secondary SELV circuits)	--	--	--	ECBT2, RTRT2	UL	
22a. Connectors and Receptacles (secondary SELV circuits) (Alternate)	--	--	Copper alloy pins housed in bodies of plastic rated V-2 min	QMFZ2	UL	
23. Interconnecting Cable (Optional)	--	--	Minimum 60 degree C, 30 V, maximum 3.05 m long, VW-1 or FT-1 or better	AVLV2 or DVPJ or NWGQ2	UL	
24 Varistor (ZP1) Optional	JOYIN CO LTD	14N471K	300Vac, 385Vdc	VZCA2	UL	

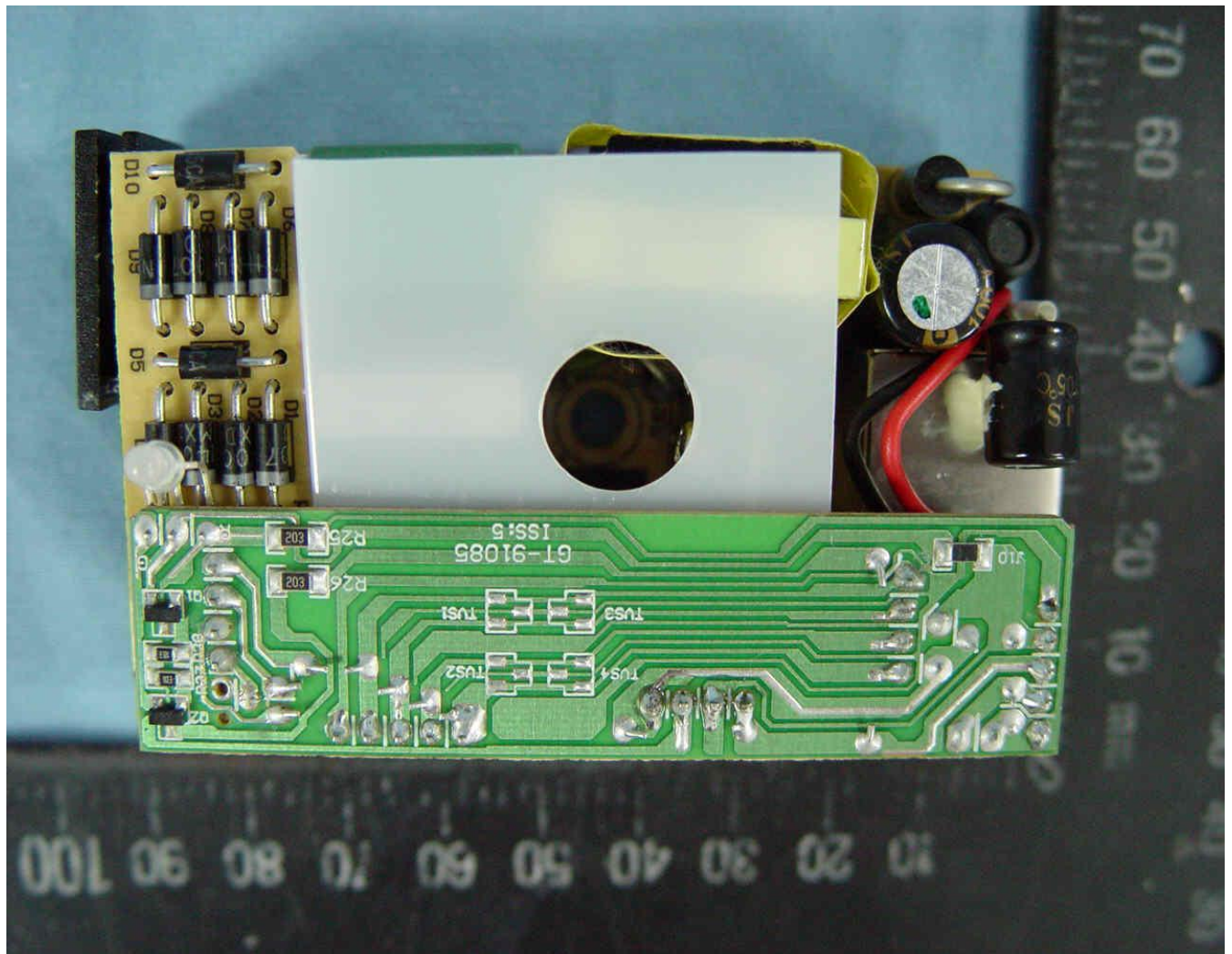
Enclosures

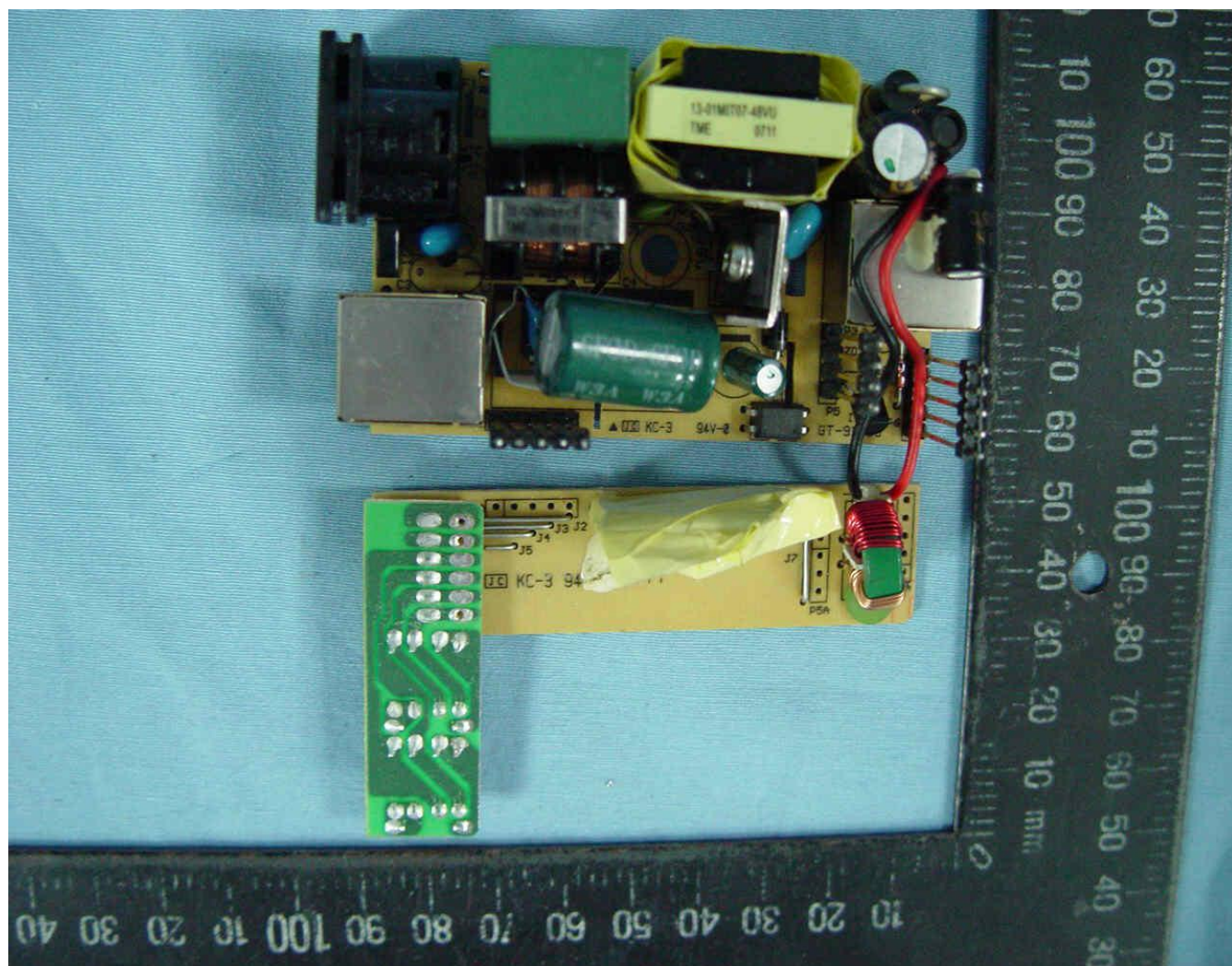
<u>Type</u>	<u>Supplement Id</u>	<u>Description</u>
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Schematics + PWB	5-02	PWB layout for alternate daughter board (iss:9)
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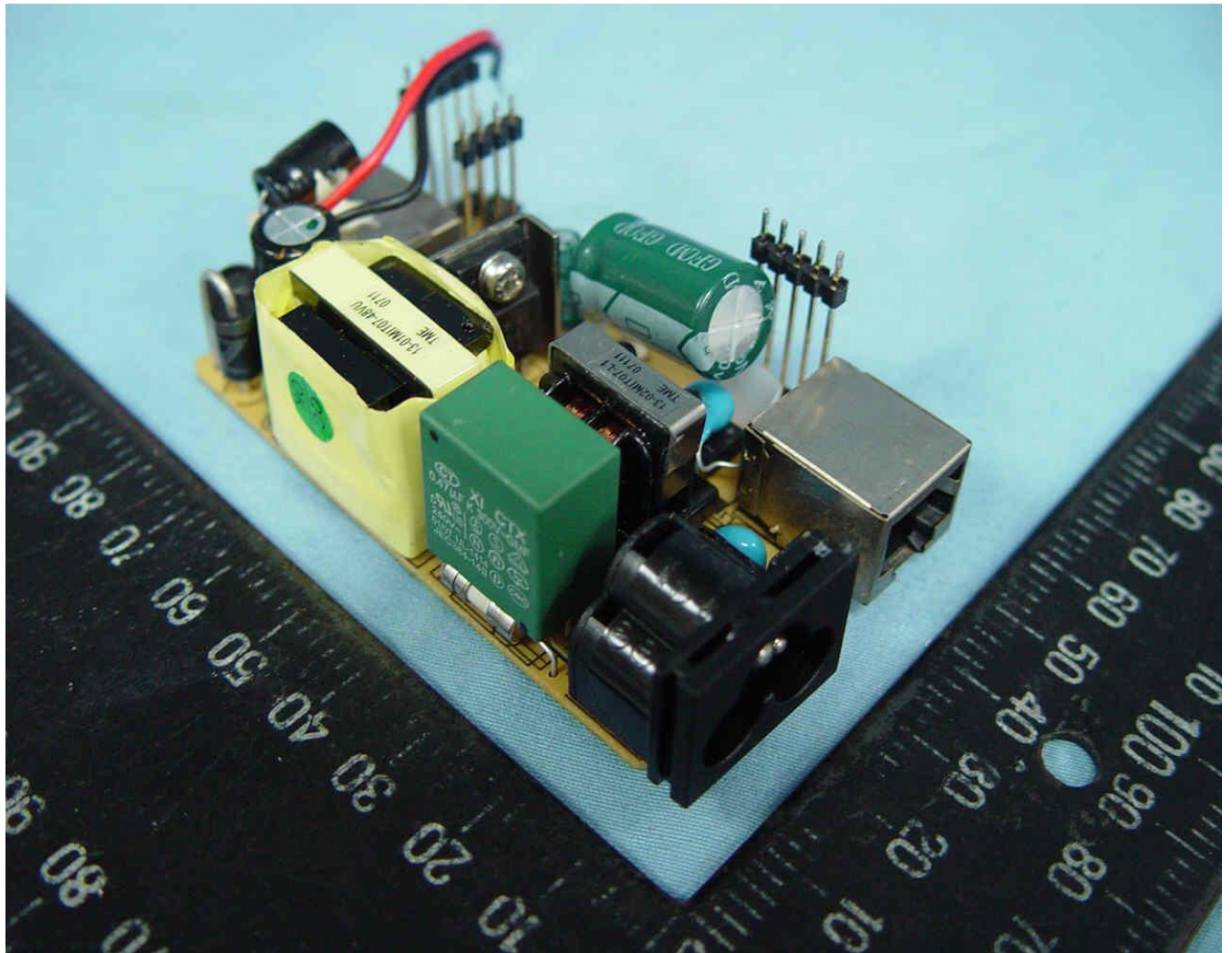


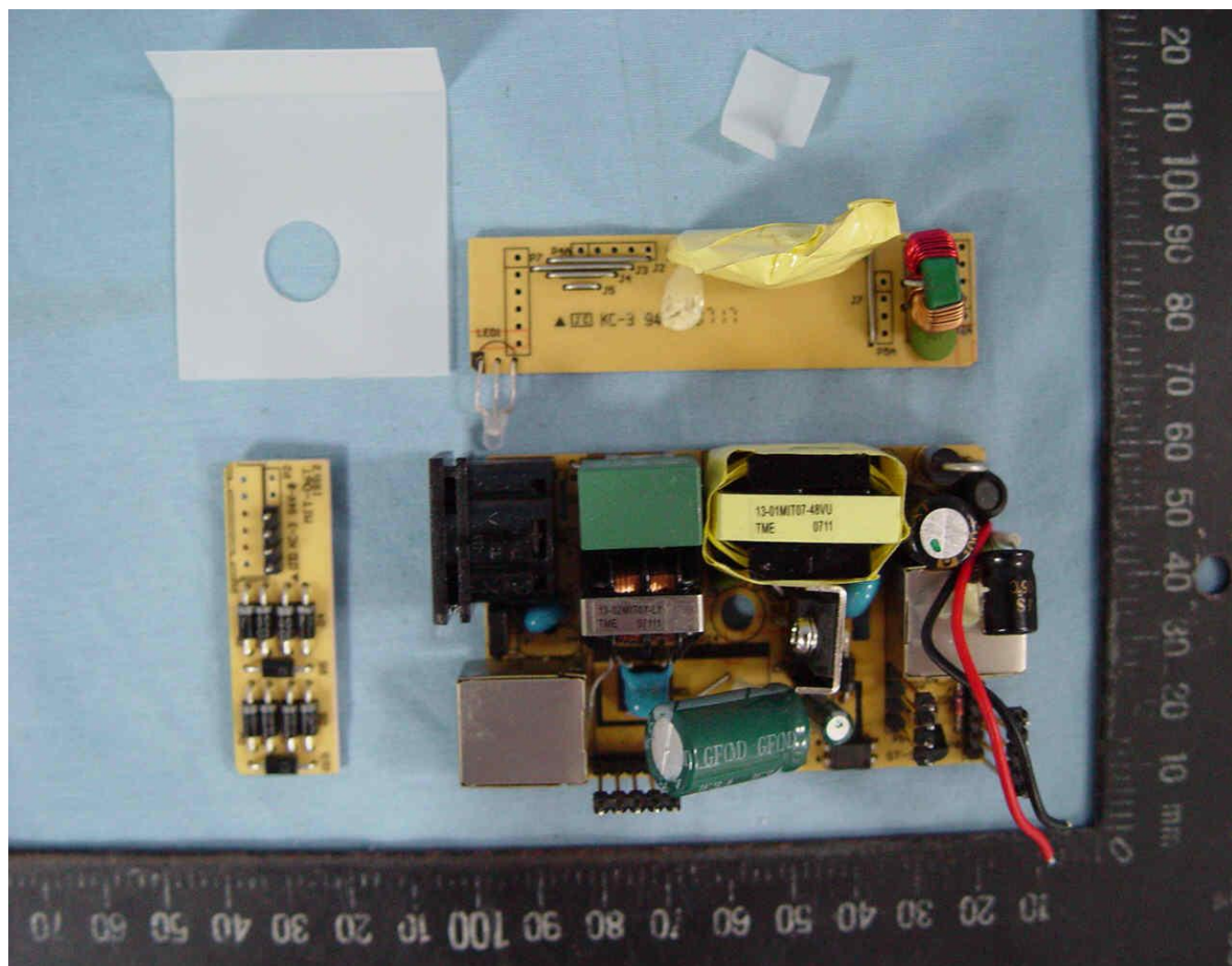


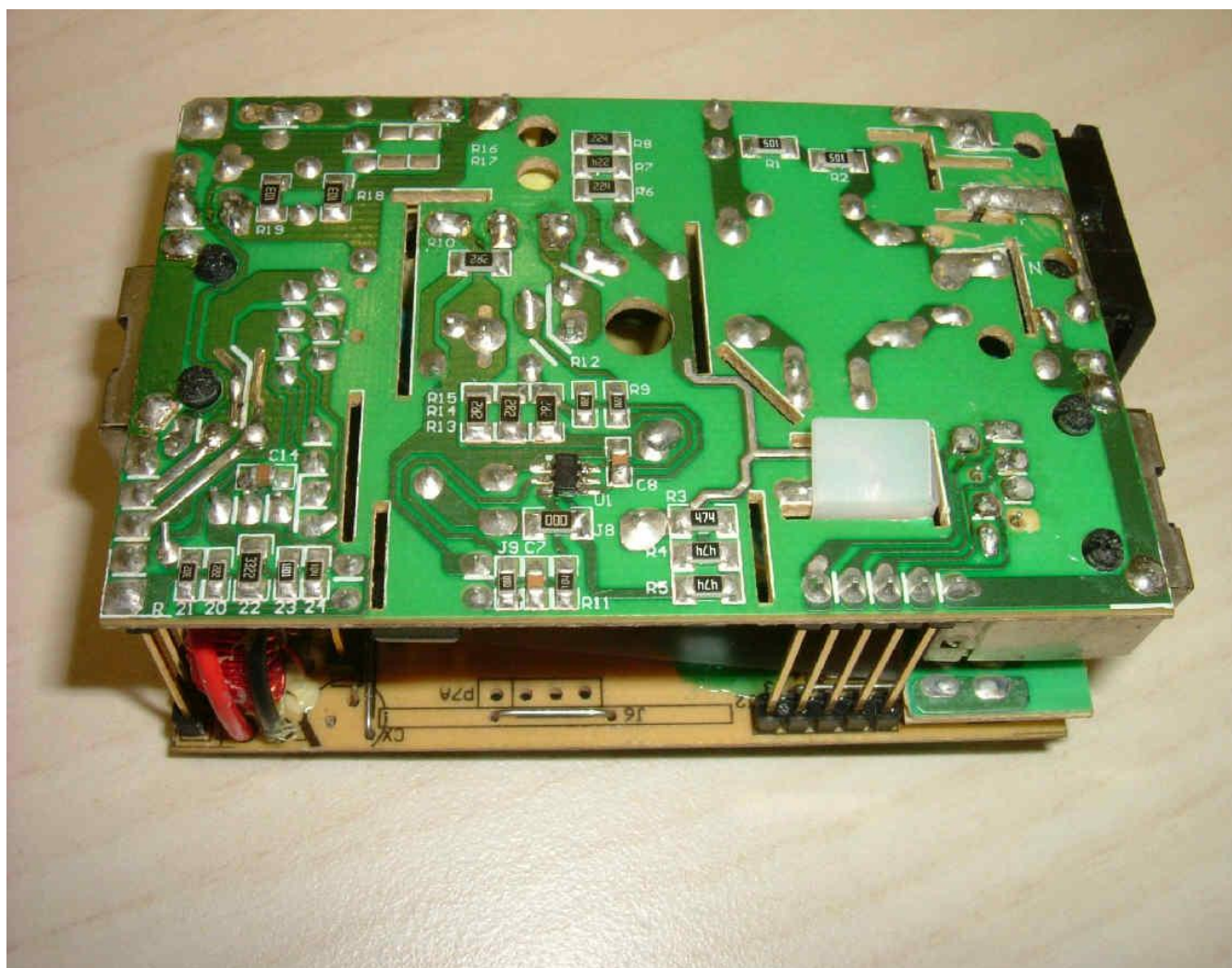


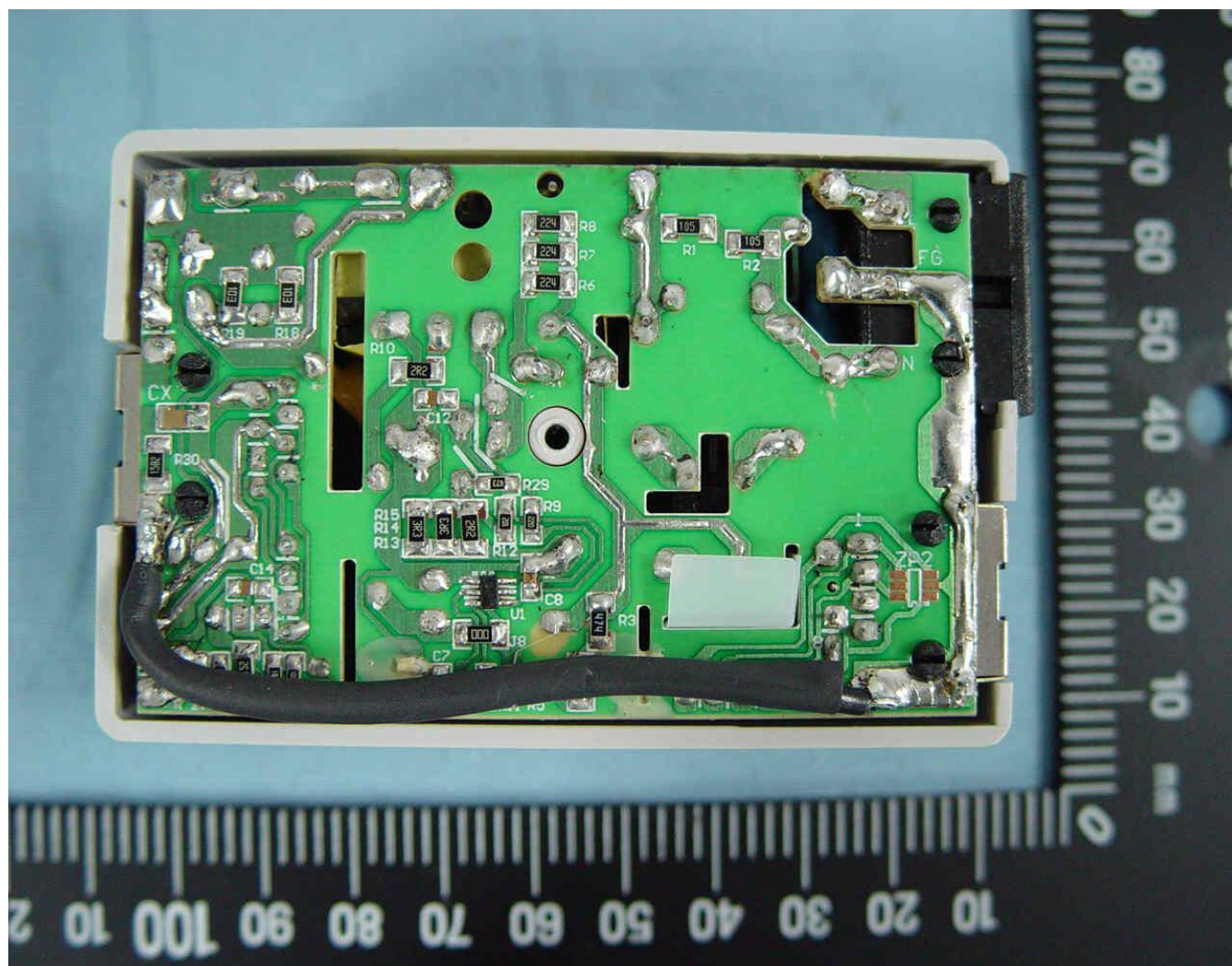


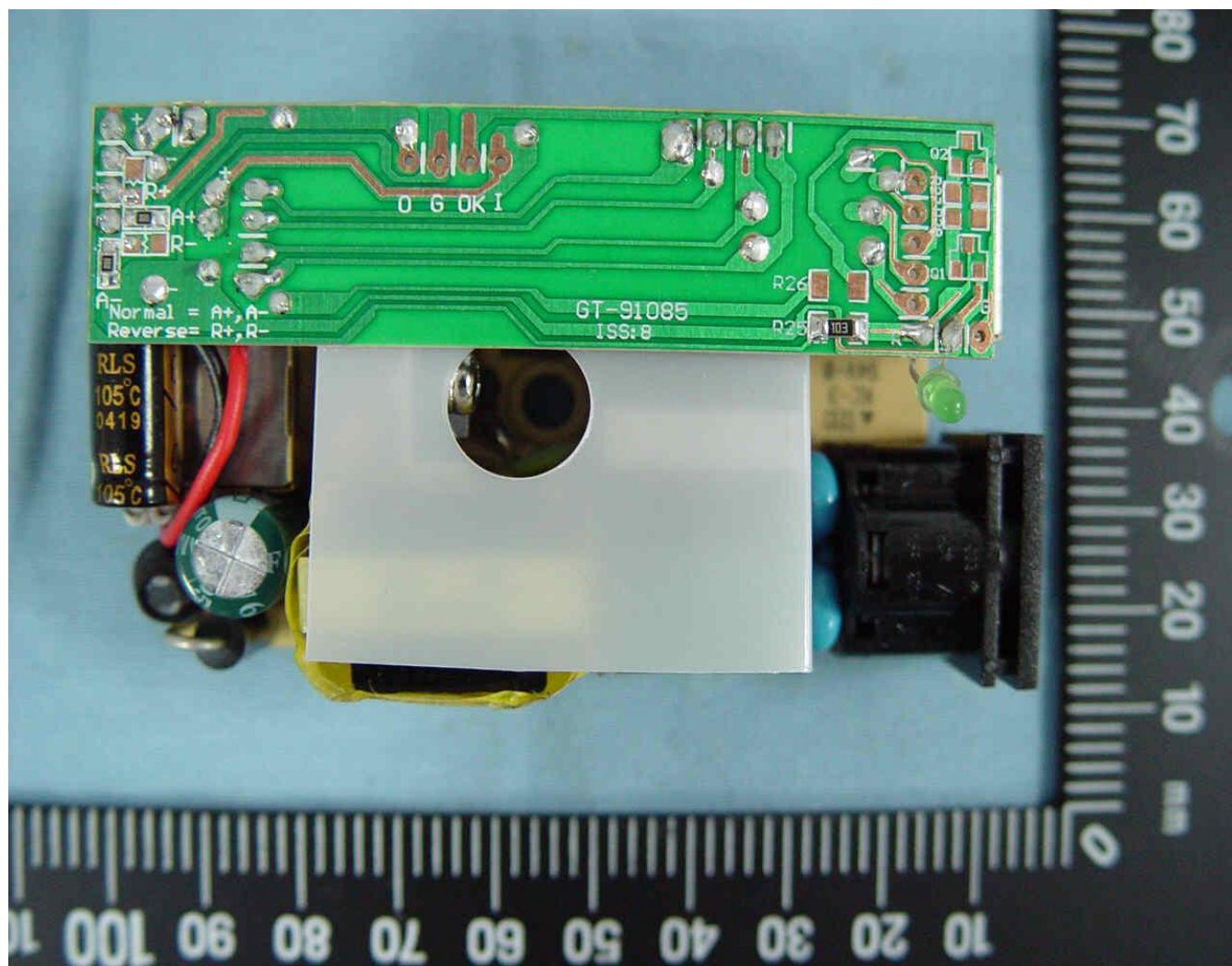


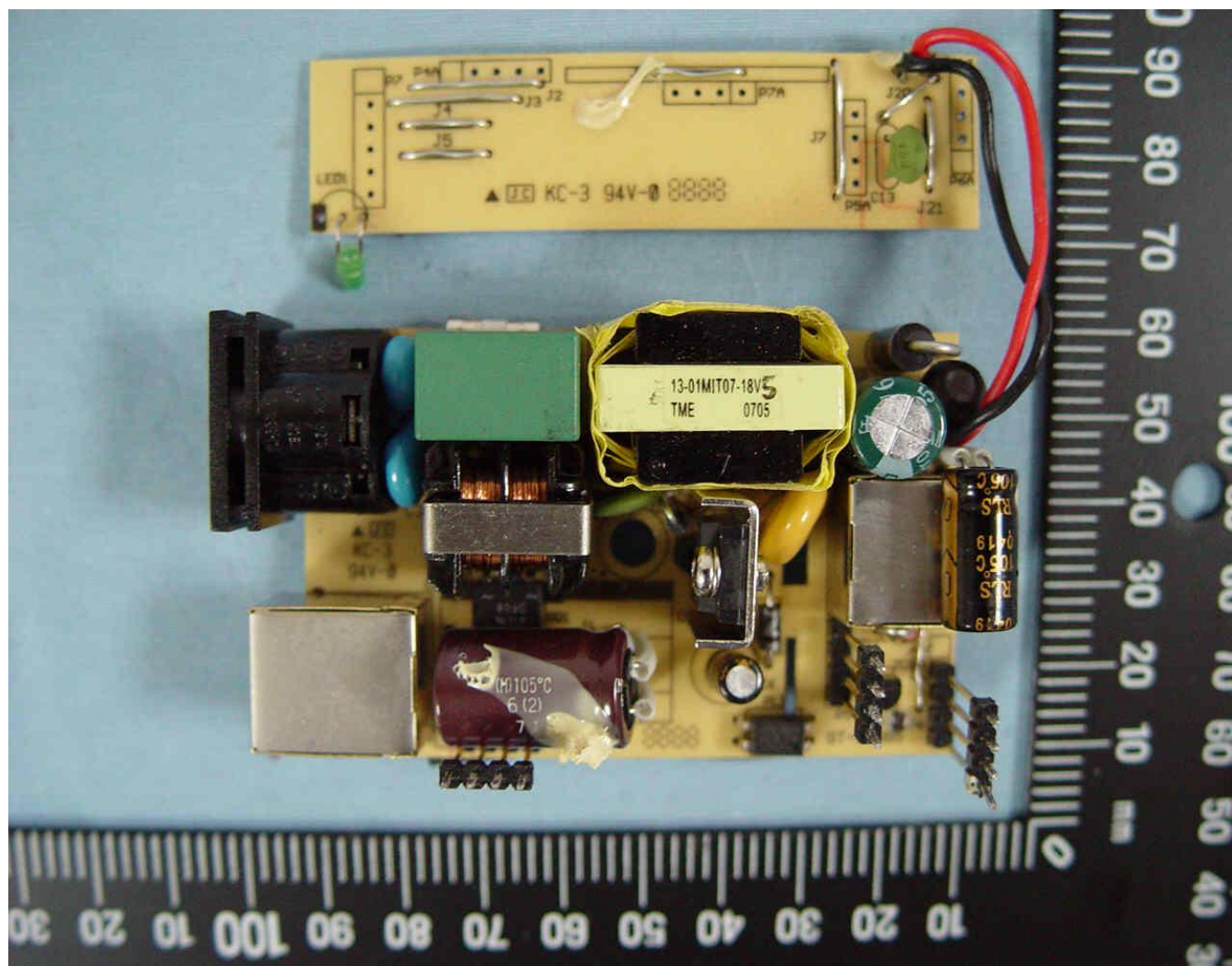


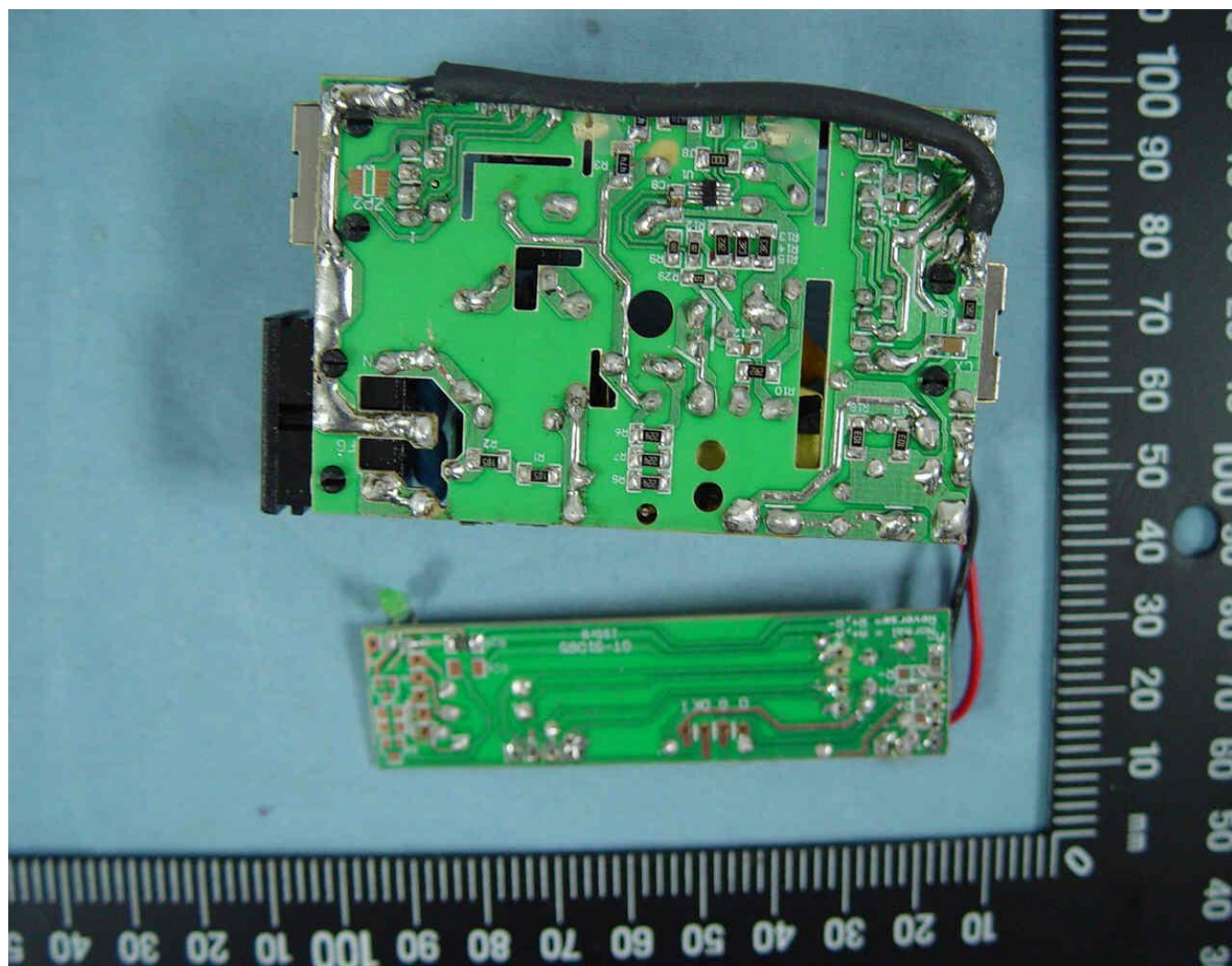


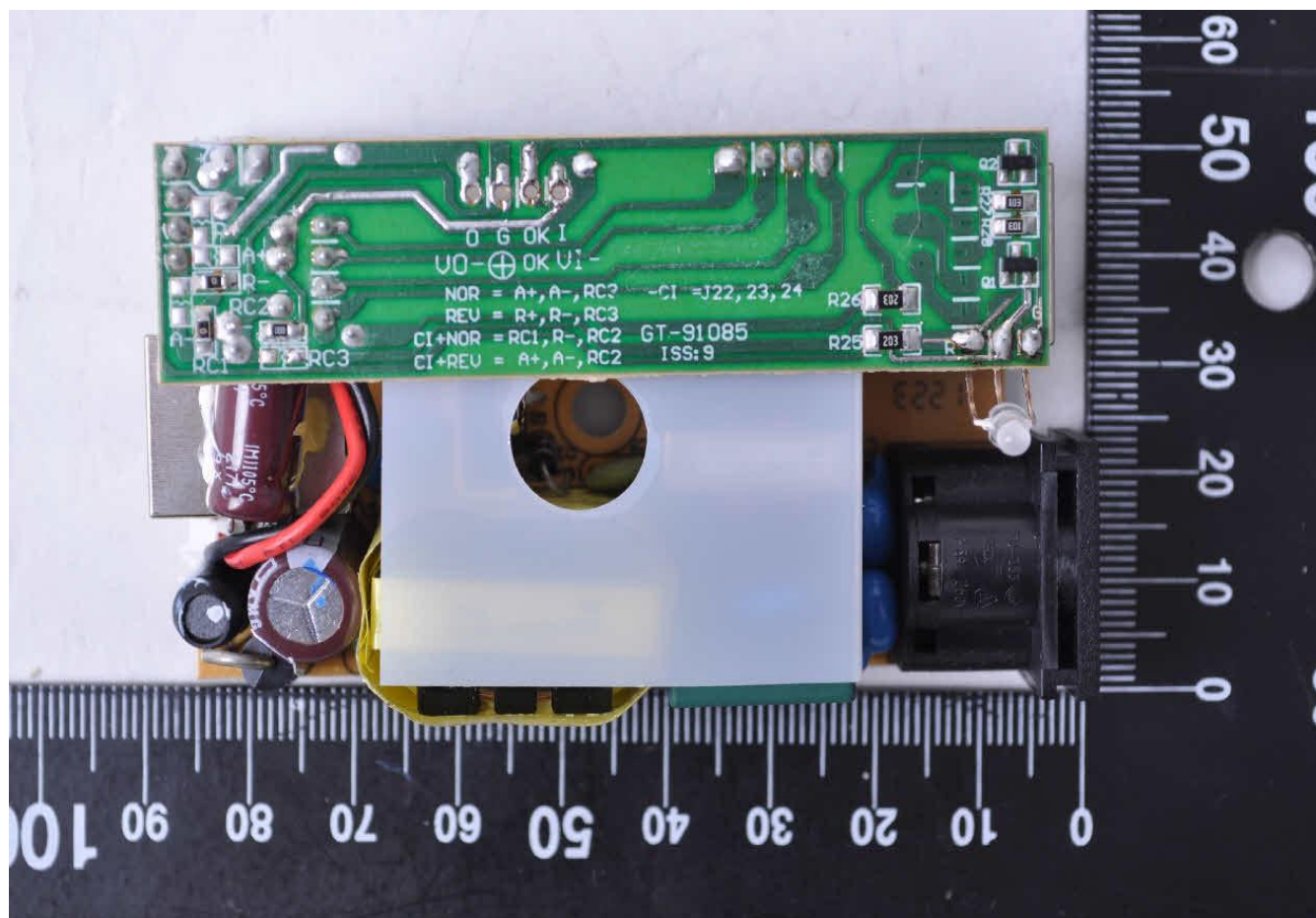


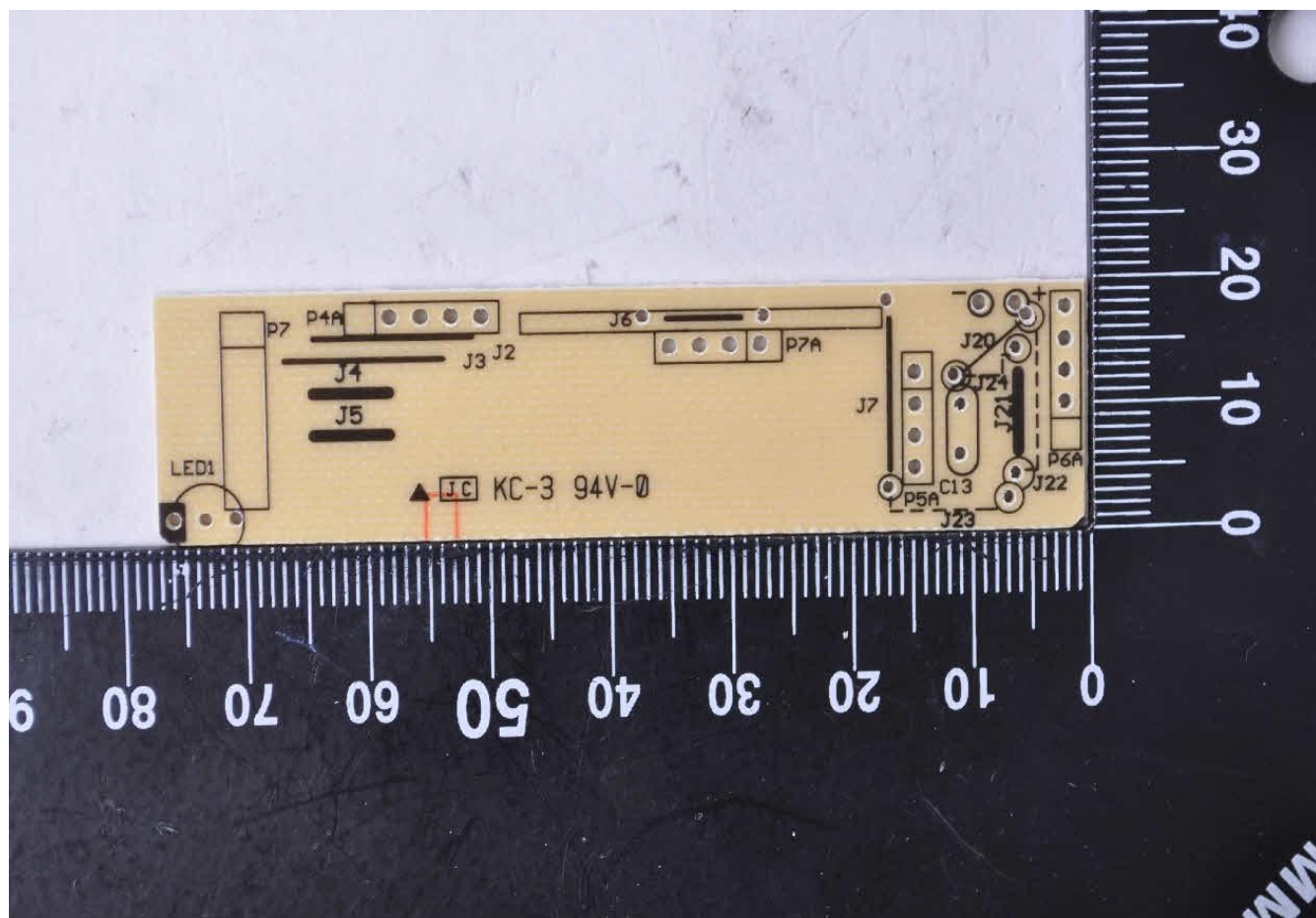


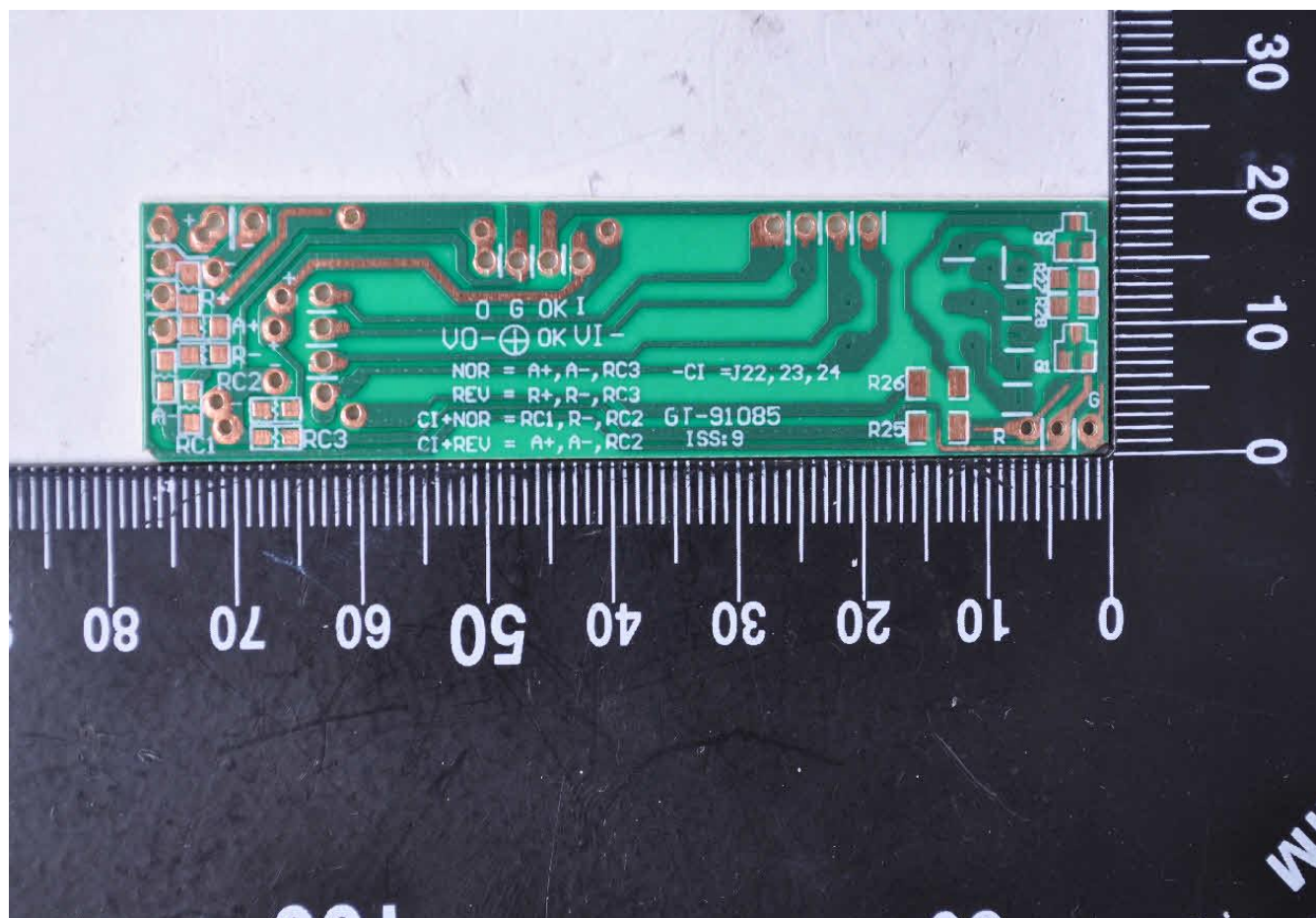


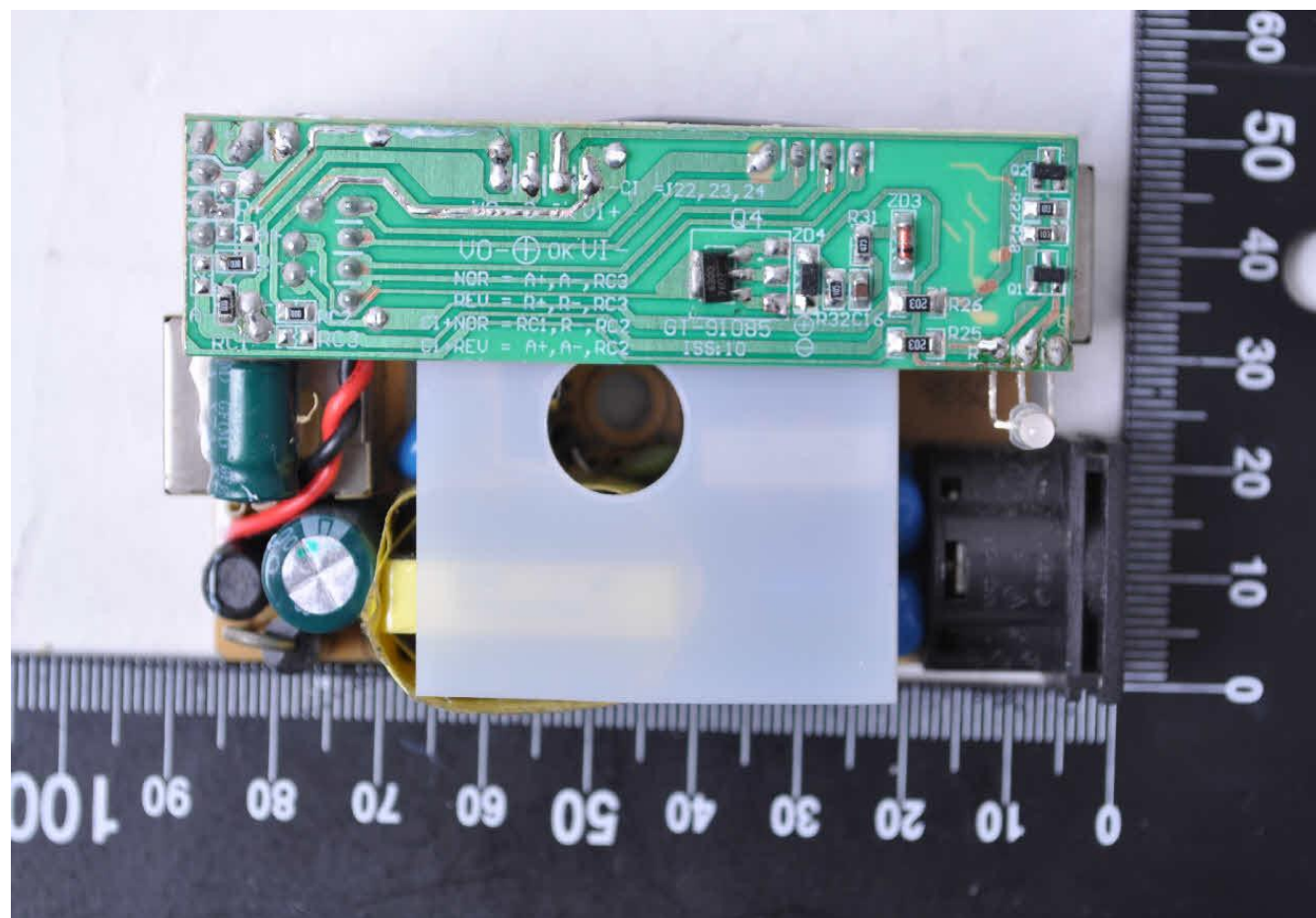


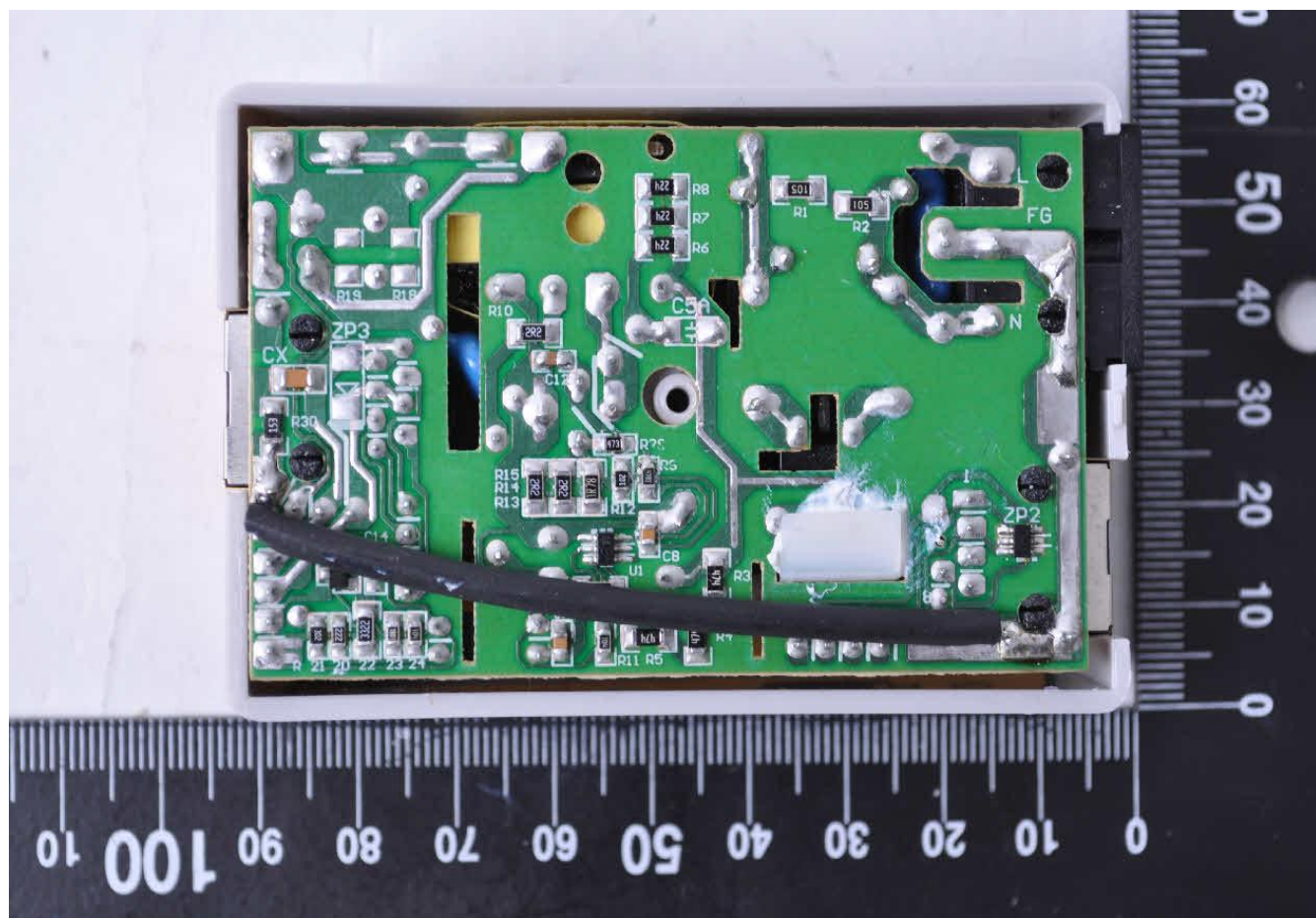


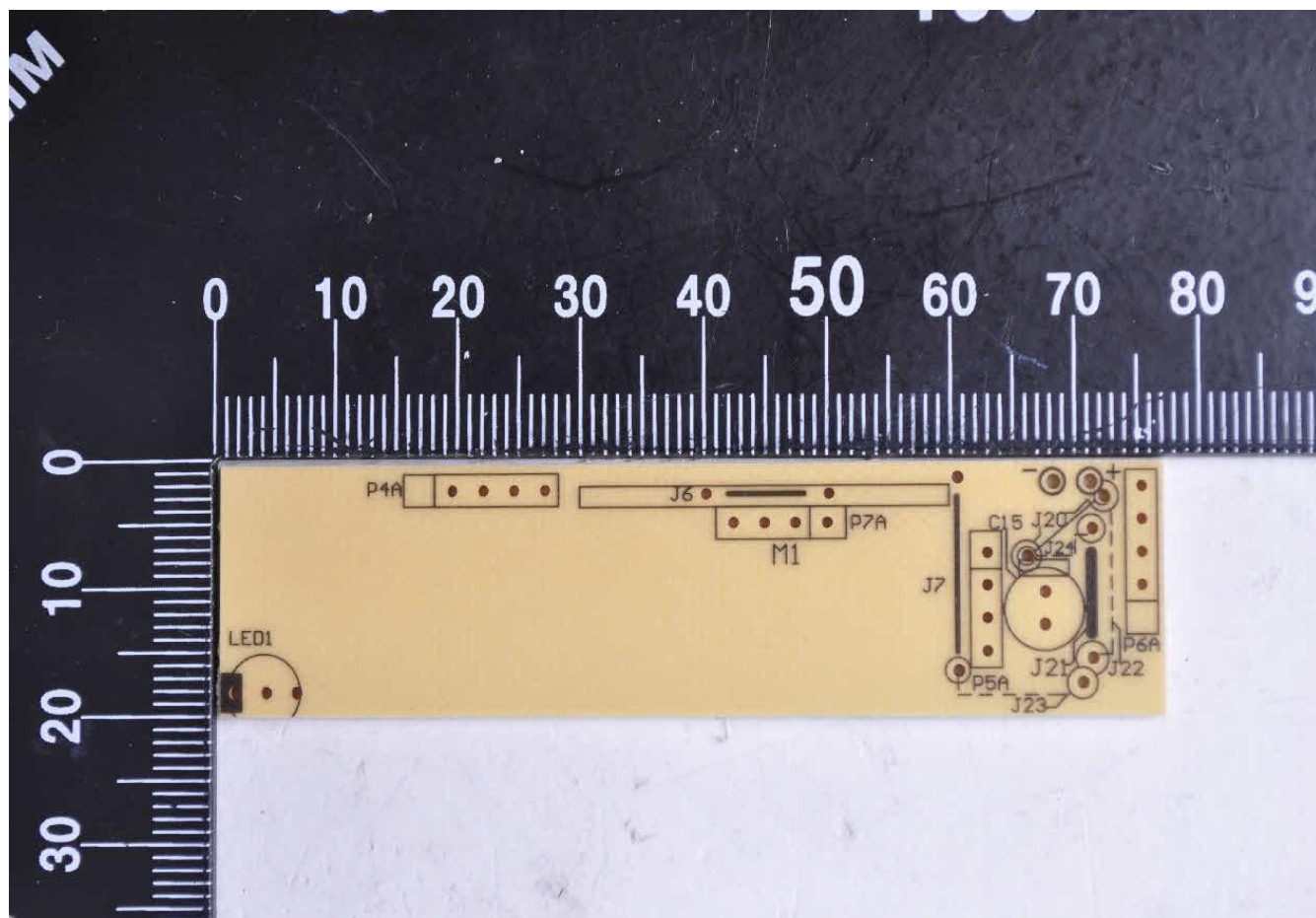


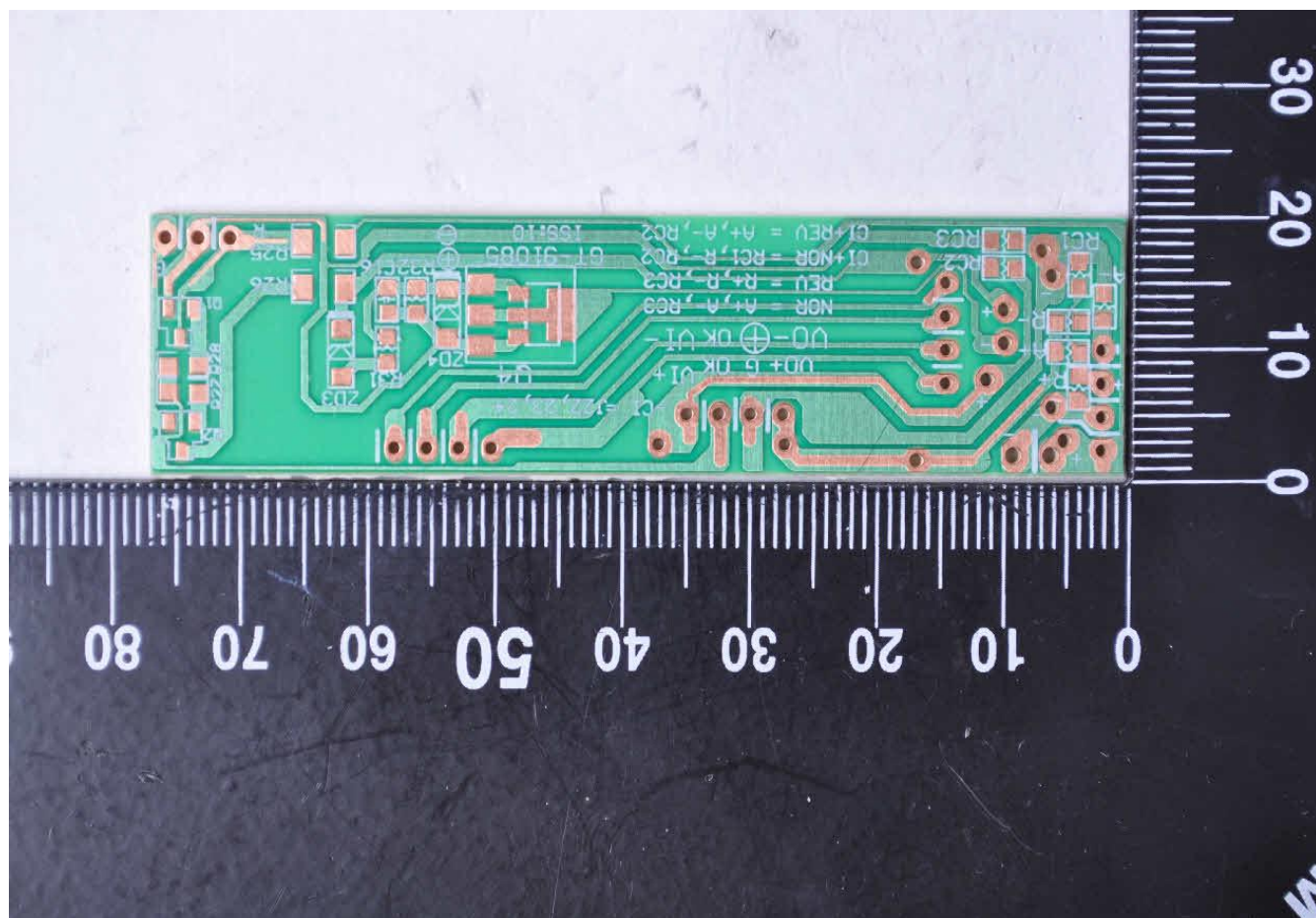


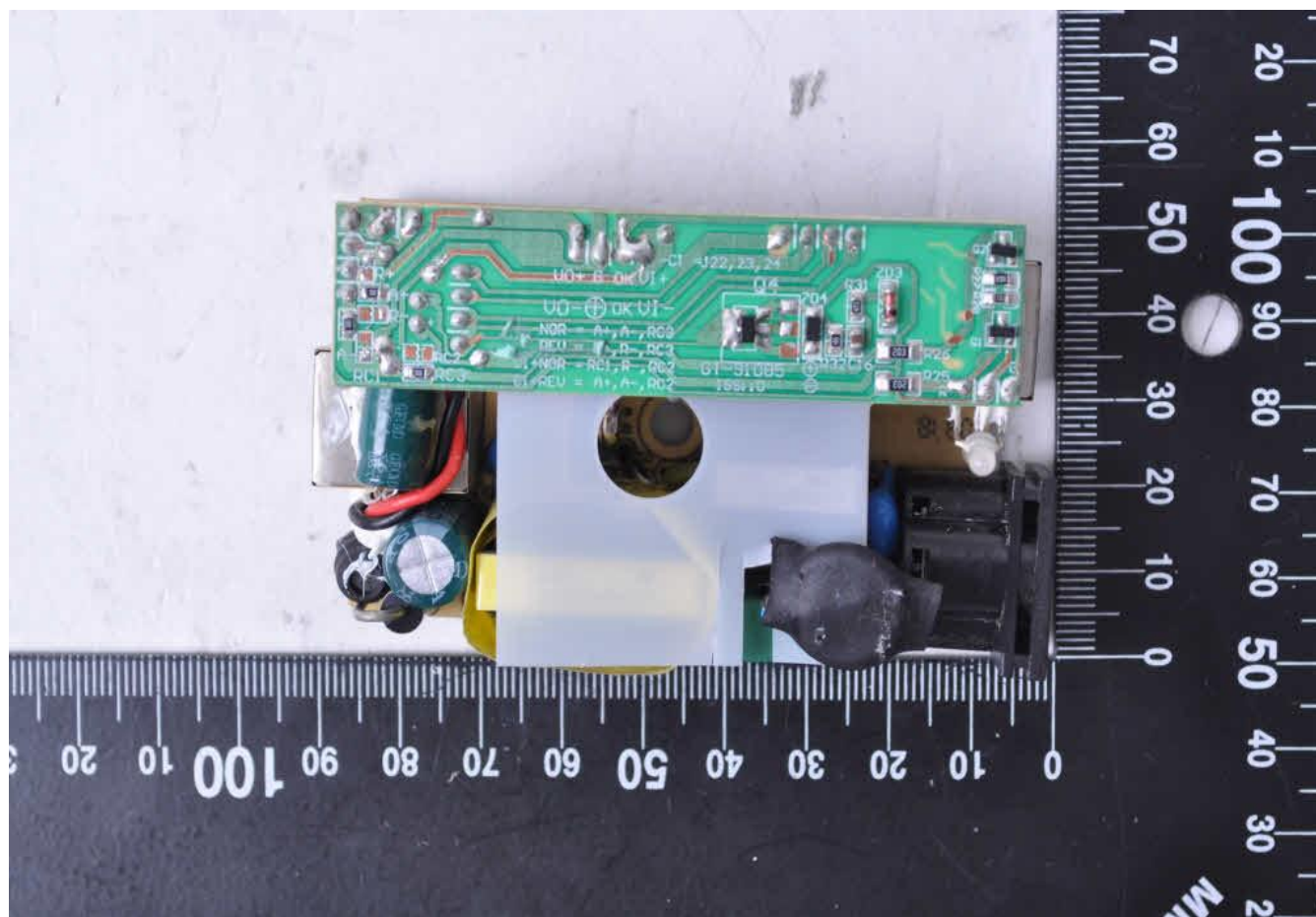










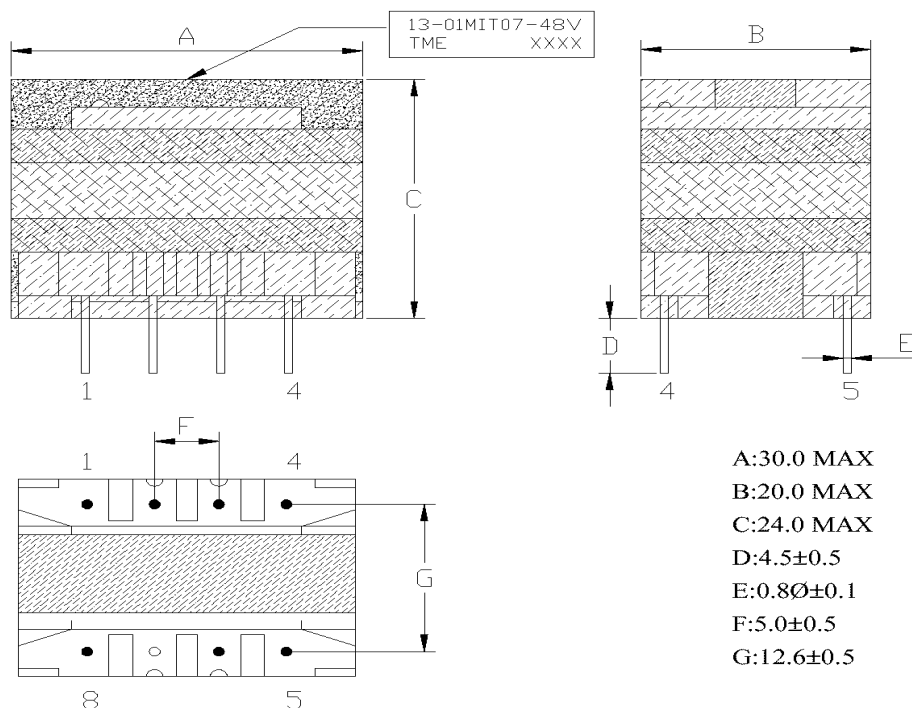


SPECIFICATION FOR APPROVAL SPECIFICATION SHEET



CUSTOMER CODE: 名翔 SAMPLE NUMBER: 13-01MIT07-48V REV: B
DESCRIPTION: DATE: 2007/06/27

1.CONFIGURATION DIMENSIONS (UNIT:mm)



*Note:

- 1.BOBBIN PIN 7 CUT OFF ; PIN 8 焊錫後剪短。
- 2.鐵芯須研磨,研磨之鐵芯放 BOBBIN 底部,完全密合的以 6.0m/mW 之黃色膠帶 2TS 固定。
- 3.組裝後用線包膠帶圍著成品線包包 1TS,再以 2MIL*8m/mW 的銅箔(須背膠)包 1TS,引線為 0.4Ø 接於 PIN4,銅箔結合處不可焊接,以 8.0m/mW 膠帶粘住,然後用 11m/mW 膠帶包 1TS。
- 4.成品週邊用 21.5m/mW 膠帶包 3TS。
- 5.標籤字腳朝 PIN1-4(如圖示)。

APPROVED BY: 林孝德

CHECKED BY: 林振緯

DRAWN BY: 廖明亮

SPECIFICATION FOR APPROVAL SPECIFICATION SHEET

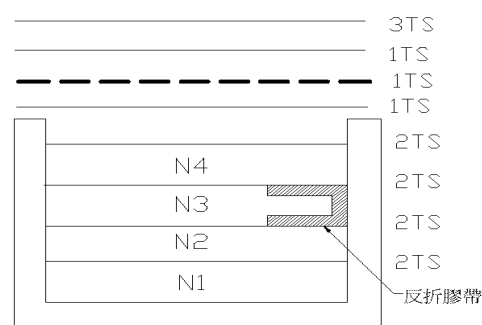
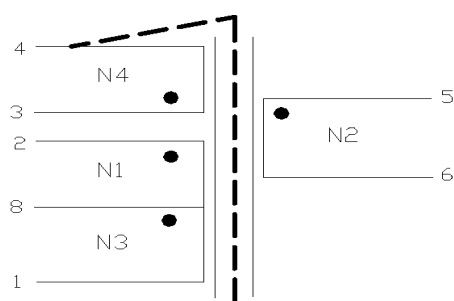


CUSTOMER CODE: 名翔 SAMPLE NUMBER: 13-01MIT07-48V REV: B
DESCRIPTION: DATE: 2007/06/27

2. WINDING ORDER:

WINDING	START	WIRE	FINISH	TURNS	TAPE	TUBE	REMARK
N1	2	0.25 ϕ *2P	8	34.5TS	2TS	/	密繞
N2	5	0.3 ϕ (TEX-E)*2P	6	40TS	2TS	/	密繞
N3	8	0.25 ϕ *2P	1	33.5TS	2TS	/	密繞
N4	3	0.25 ϕ	4	11TS	2TS	/	疏繞

3. WINDING CONSTRUCTION



4. ELECTRIC CHARACTERISTICS:

a. INDUCTANCE: 1KHz/0.25V

L(1-2):500uH $\pm$ 10%

b. DC RESISTANCE:

R(1-2):0.85 Ω MAX

c. HI-POT:

PRI TO SEC:A.C 3750V/5mA FOR 1 SECOND

PRI TO CORE:A.C 1200V/5mA FOR 1 SECOND

SEC TO CORE:A.C 1200V/5mA FOR 1 SECOND

APPROVED BY: 林孝德

CHECKED BY: 林振緯

DRAWN BY: 廖明亮

SPECIFICATION FOR APPROVAL SPECIFICATION SHEET



CUSTOMER CODE: 名翔 SAMPLE NUMBER: 13-01MIT07-48V REV: B

DESCRIPTION: DATE: 2007/06/27

5. MATERIAL LIST:

TEM	DESCRIPTION	MATERIAL	FLAME RETARDANT CLASS (TEMP, CLASS)	UL NO.	MANUFACTURER	
1	CU WIRE	UEW-2 TEX-E	130°C 130°C	E174837 E206440	JUNG SHING FURUKAWA	✓ ✓
2	BOBBIN	PHENOLIC T375J		E59481(S)	CHANG CHUN	✓
3	CORE	EE-25 TP40 EE-25 P4			TAK ACME	✓
4	POLYESTER TAPE	#35660	130°C	E50292	FOUR PILLARS	✓
5	VARNISH	BC-346A		E51047(M)	JOHN C. DOLPH CO	✓
6	FOIL	C1100			HONG LI YUAN	✓

APPROVED BY: 林孝德

CHECKED BY: 林振緯

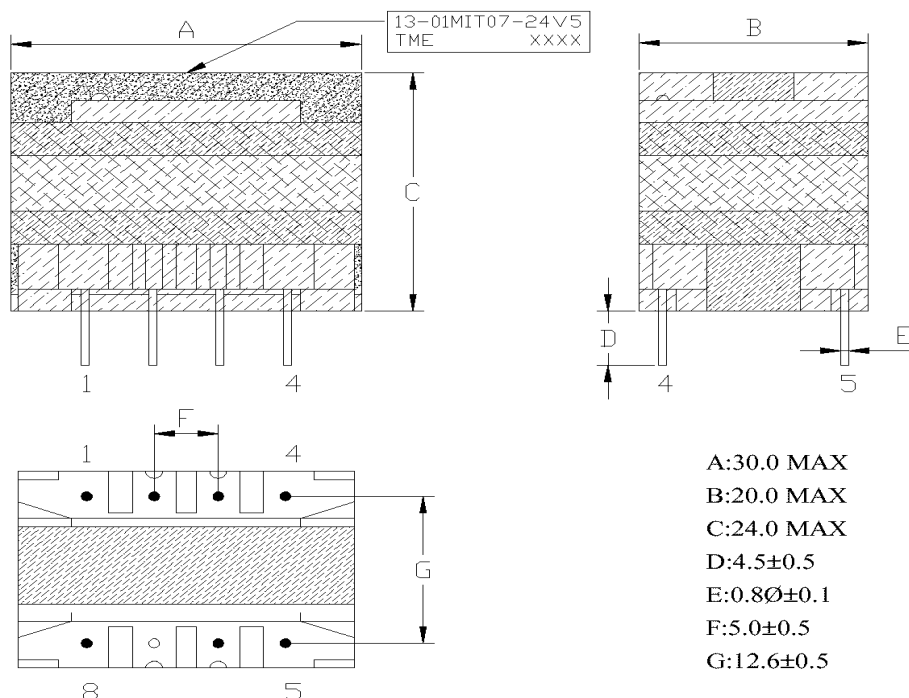
DRAWN BY: 廖明亮

SPECIFICATION FOR APPROVAL SPECIFICATION SHEET



CUSTOMER CODE: 名翔 SAMPLE NUMBER: 13-01MIT07-24V5 REV: A
DESCRIPTION: DATE: 2007/06/26

1.CONFIGURATION DIMENSIONS (UNIT:mm)



*Note:

- 1.BOBBIN PIN 7 CUT OFF ; PIN 8 焊錫後剪短。
- 2.鐵芯須研磨,研磨之鐵芯放 BOBBIN 底部,完全密合的以 6.0m/mW 之黃色膠帶 2TS 固定。
- 3.組裝後用線包膠帶圍著成品線包包 1TS,再以 2MIL*8m/mW 的銅箔(須背膠)包 1TS,引線為 0.4Ø 接於 PIN4,銅箔結合處不可焊接,以 8.0m/mW 膠帶粘住,然後用 11m/mW 膠帶包 1TS。
- 4.成品週邊用 21.5m/mW 膠帶包 3TS。
- 5.標籤字腳朝 PIN1-4(如圖示)。

APPROVED BY: 林孝德

CHECKED BY: 林振緯

DRAWN BY: 廖明亮

SPECIFICATION FOR APPROVAL SPECIFICATION SHEET

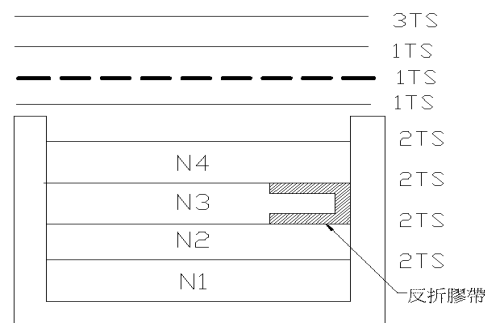
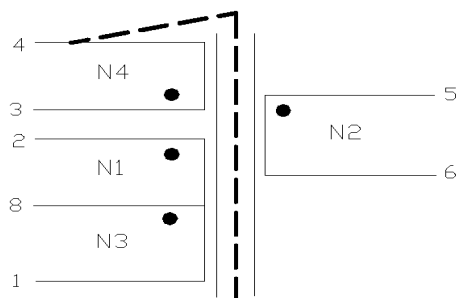


CUSTOMER CODE: 名翔 SAMPLE NUMBER: 13-01MIT07-24V5 REV: A
DESCRIPTION: DATE: 2007/06/26

2.WINDING ORDER:

WINDING	START	WIRE	FINISH	TURNS	TAPE	TUBE	REMARK
N1	2	0.25 $\varnothing$ *2P	8	34.5TS	2TS	/	密繞
N2	5	0.3 $\varnothing$ (TEX-E)*2P	6	28TS	2TS	/	密繞
N3	8	0.25 $\varnothing$ *2P	1	33.5TS	2TS	/	密繞
N4	3	0.25 $\varnothing$	4	16TS	2TS	/	疏繞

3.WINDING CONSTRUCTION



4.ELECTRIC CHARACTERISTICS:

a. INDUCTANCE: 1KHz/0.25V

L(1-2):500uH $\pm$ 50uH

b. DC RESISTANCE:

R(1-2):0.85 Ω MAX

c. HI-POT:

PRI TO SEC:A.C 3750V/5mA FOR 1 SECOND

PRI TO CORE:A.C 1200V/5mA FOR 1 SECOND

SEC TO CORE:A.C 1200V/5mA FOR 1 SECOND

APPROVED BY: 林孝德

CHECKED BY: 林振緯

DRAWN BY: 廖明亮

SPECIFICATION FOR APPROVAL SPECIFICATION SHEET



CUSTOMER CODE: 名翔 SAMPLE NUMBER: 13-01MIT07-24V5 REV: A

DESCRIPTION: DATE: 2007/06/26

5. MATERIAL LIST:

TEM	DESCRIPTION	MATERIAL	FLAME RETARDANT CLASS (TEMP,CLASS)	UL NO.	MANUFACTURER	
1	CU WIRE	UEW-2 TEX-E	130°C 130°C	E174837 E206440	JUNG SHING FURUKAWA	✓ ✓
2	BOBBIN	PHENOLIC T375J		E59481(S)	CHANG CHUN	✓
3	CORE	EE-25 TP40 EE-25 P4			TAK ACME	✓
4	POLYESTER TAPE	#35660	130°C	E50292	FOUR PILLARS	✓
5	VARNISH	BC-346A		E51047(M)	JOHN C.DOLPH CO	✓
6	FOIL	C1100			HONG LI YUAN	✓

APPROVED BY: 林孝德

CHECKED BY: 林振緯

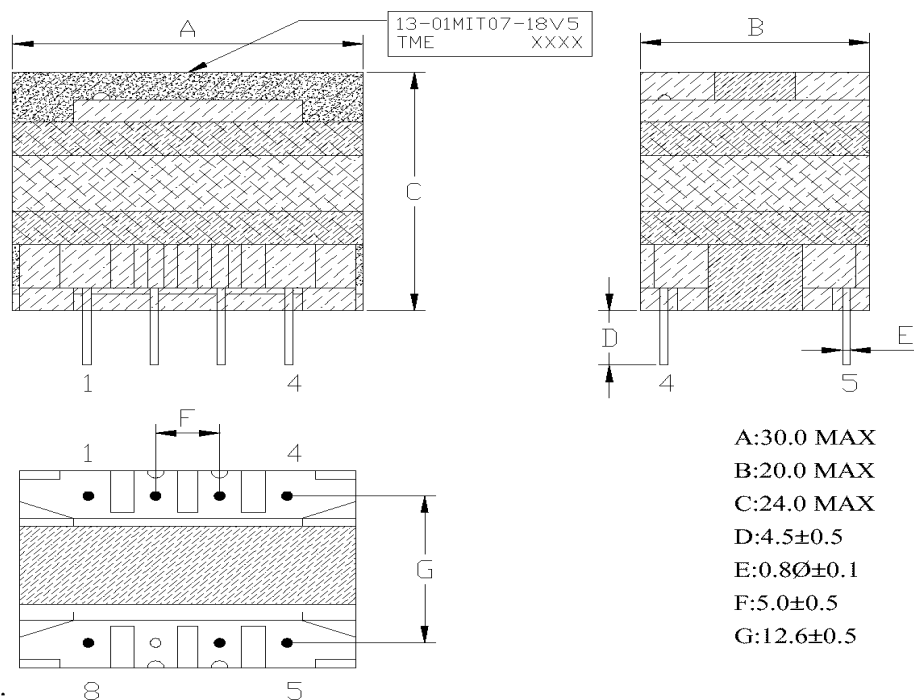
DRAWN BY: 廖明亮

SPECIFICATION FOR APPROVAL SPECIFICATION SHEET



CUSTOMER CODE: 名翔 SAMPLE NUMBER: 13-01MIT07-18V5 REV: A
DESCRIPTION: DATE: 2007/06/26

1.CONFIGURATION DIMENSIONS (UNIT:mm)



*Note:

- 1.BOBBIN PIN 7 CUT OFF ; PIN 8 焊錫後剪短。
- 2.鐵芯須研磨,研磨之鐵芯放 BOBBIN 底部,完全密合的以 6.0m/mW 之黃色膠帶 2TS 固定。
- 3.組裝後用線包膠帶圍著成品線包包 1TS,再以 2MIL*8m/mW 的銅箔(須背膠)包 1TS,引線為 0.4Ø 接於 PIN4,銅箔結合處不可焊接,以 8.0m/mW 膠帶粘住,然後用 11m/mW 膠帶包 1TS。
- 4.成品週邊用 21.5m/mW 膠帶包 3TS。
- 5.標籤字腳朝 PIN1-4(如圖示)。

APPROVED BY: 林孝德

CHECKED BY: 林振緯

DRAWN BY: 廖明亮

SPECIFICATION FOR APPROVAL SPECIFICATION SHEET

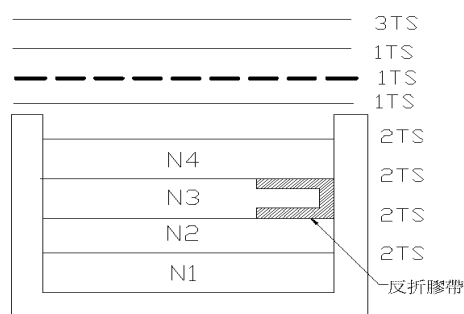
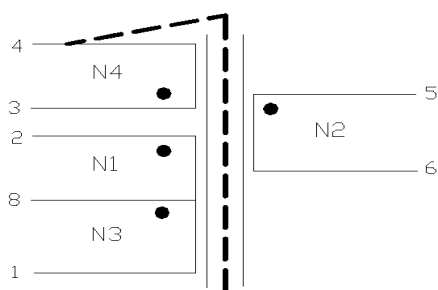


CUSTOMER CODE: 名翔 SAMPLE NUMBER: 13-01MIT07-18V5 REV: A
 DESCRIPTION: _____ DATE: 2007/06/26

2. WINDING ORDER:

WINDING	START	WIRE	FINISH	TURNS	TAPE	TUBE	REMARK
N1	2	0.25Ø*2P	8	34.5TS	2TS	/	密繞
N2	5	0.3Ø(TEX-E)*2P	6	20TS	2TS	/	密繞
N3	8	0.25Ø*2P	1	33.5TS	2TS	/	密繞
N4	3	0.25Ø	4	17TS	2TS	/	疏繞

3. WINDING CONSTRUCTION



4. ELECTRIC CHARACTERISTICS:

a. INDUCTANCE: 1KHz/0.25V

L(1-2):800uH±50uH

b. DC RESISTANCE:

R(1-2):0.85Ω MAX

c. HI-POT:

PRI TO SEC:A.C 3750V/5mA FOR 1 SECOND

PRI TO CORE:A.C 1200V/5mA FOR 1 SECOND

SEC TO CORE:A.C 1200V/5mA FOR 1 SECOND

APPROVED BY: 林孝德

CHECKED BY: 林振緯

DRAWN BY: 廖明亮

SPECIFICATION FOR APPROVAL SPECIFICATION SHEET



CUSTOMER CODE: 名翔 SAMPLE NUMBER: 13-01MIT07-18V5 REV: A

DESCRIPTION: _____ DATE: 2007/06/26

5. MATERIAL LIST:

TEM	DESCRIPTION	MATERIAL	FLAME RETARDANT CLASS (TEMP, CLASS)	UL NO.	MANUFACTURER	
1	CU WIRE	UEW-2 TEX-E	130°C 130°C	E174837 E206440	JUNG SHING FURUKAWA	✓ ✓
2	BOBBIN	PHENOLIC T375J		E59481(S)	CHANG CHUN	✓
3	CORE	EE-25 TP40 EE-25 P4			TAK ACME	✓
4	POLYESTER TAPE	#35660	130°C	E50292	FOUR PILLARS	✓
5	VARNISH	BC-346A		E51047(M)	JOHN C. DOLPH CO	✓
6	FOIL	C1100			HONG LI YUAN	✓

APPROVED BY: 林孝德

CHECKED BY: 林振緯

DRAWN BY: 廖明亮

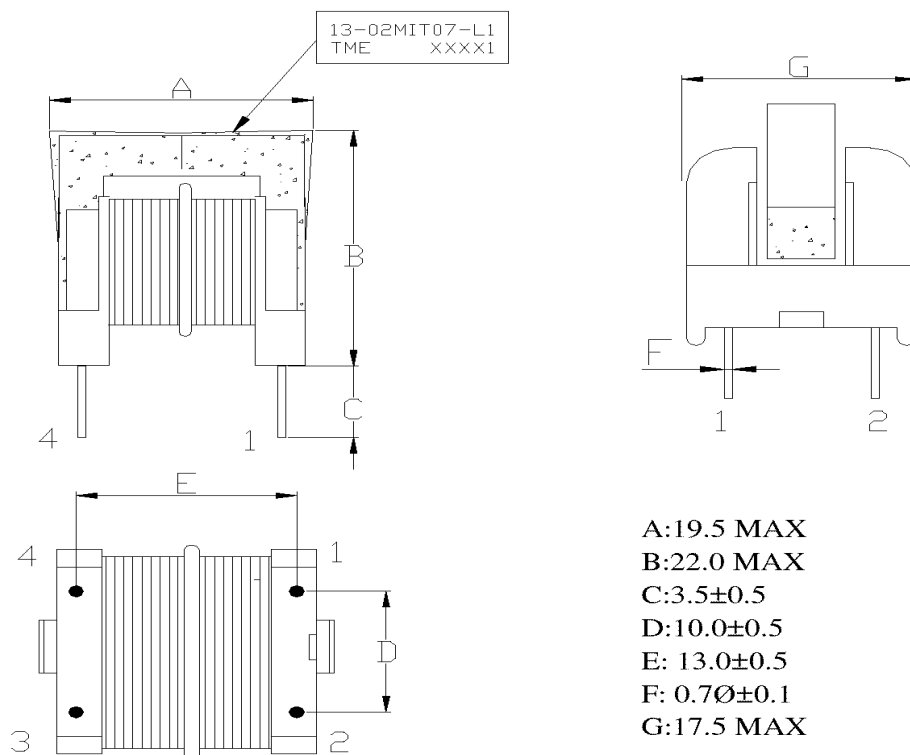
SPECIFICATION FOR APPROVAL SPECIFICATION SHEET



CUSTOMER CODE: 名翔 SAMPLE NUMBER: 13-02MIT07-L1 REV: A

DESCRIPTION: DATE: 2006/12/14

1 · CONFIGURATION DIMENSIONS (UNIT : mm)



APPROVED BY: 林孝德

CHECKED BY: 林振緯

DRAWN BY: 廖明亮

PAGE 1 OF 3

TAIWAN TRANSMORE ELECTRONIC CO., LID
DONG-GUAN SHEK-KTT TOP NATION ELECTRONI FACTORY.
TOP NATION ELECTRONIC(SU ZHOU) CO;LID

**SPECIFICATION FOR APPROVAL
SPECIFICATION SHEET**

CUSTOMER CODE: 名翔 SAMPLE NUMBER: 13-02MIT07-L1 REV: A

DESCRIPTION: DATE: 2006/12/14

2. WINDING ORDER:

WINDING	START	FINISH	WIRE	TURNS	TAPE	TUBE	REMARK
N1	1	2	0.2Ø	155TS(REF)	/	/	CLOSE
N2	4	3	0.2Ø	155TS(REF)	/	/	CLOSE

3. WINDING CONSTRUCTION**4. ELECTRIC CHARACTERISTICS:**

a. INDUCTANCE: 10KHz/0.05V

L (1-2): 35.0mH MIN

L (4-3): 35.0mH MIN

b. DC RESISTANCE:

R(1-2): 4.2Ω MAX

R(4-3): 4.2Ω MAX

c. HI-POT:

COIL TO COIL :A.C 500V/5mA FOR TWO SECOND

COILS TO CORE :A.C 500V/5mA FOR TWO SECOND

APPROVED BY: 林孝德

CHECKED BY: 林振緯

DRAWN BY: 廖明亮

PAGE 2 OF 3

TAIWAN TRANSMORE ELECTRONIC CO., LID
DONG-GUAN SHEK-KTT TOP NATION ELECTRONI FACTORY.
TOP NATION ELECTRONIC(SU ZHOU) CO;LID

SPECIFICATION FOR APPROVAL SPECIFICATION SHEET


TRANSMORE

CUSTOMER CODE: 名翔 SAMPLE NUMBER: 13-02MIT07-L1 REV: A

DESCRIPTION: DATE: 2006/12/14

5.MATERIAL LIST:

TEM	DESCRIPTION	MATERIAL	FLAME RETARDANT CLASS (TEMP.CLASS)	UL NO.	MANUFACTURER	
1	CU WIRE	DD-NYU UEW-2	130°C 130°C	E84081(S) E174837	PACIFIC JUNG SHING	✓
2	BOBBIN	PHENOLIC HY0902 PBT-4115		E59481(S) E54981(S)	CHANG CHUN CHANG CHUN	✓
3	CORE	FERRITE UU10.5 A07 FERRITE UU10.5 NC-7			ACME NICERA	✓
7	VARNISH	BC-346A/BC-359		E51047	JOHN C.DOLPH CO	✓
10	CLIP	STAINLESS			CHANCE WAY	✓

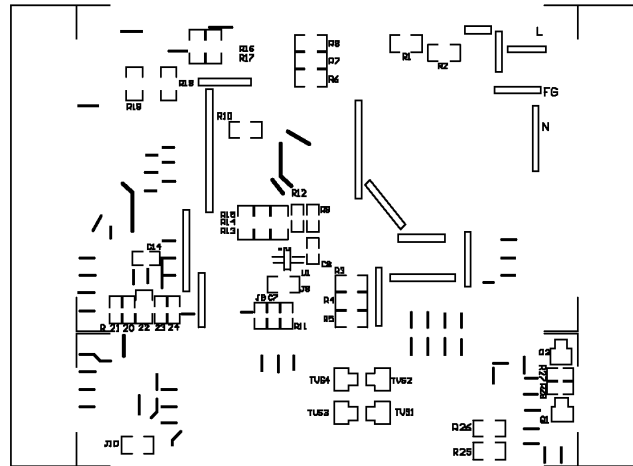
APPROVED BY: 林孝德

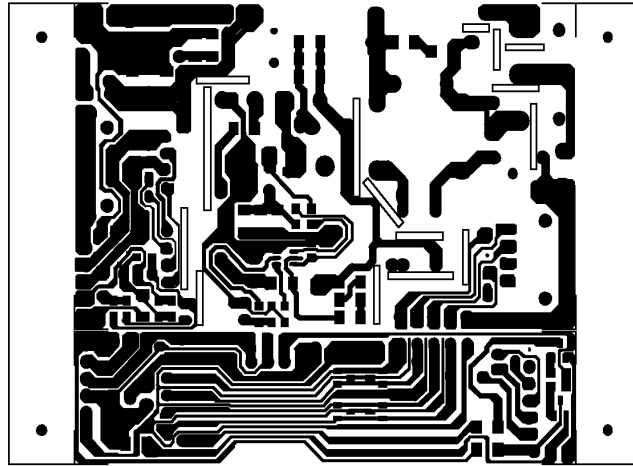
CHECKED BY: 林振緯

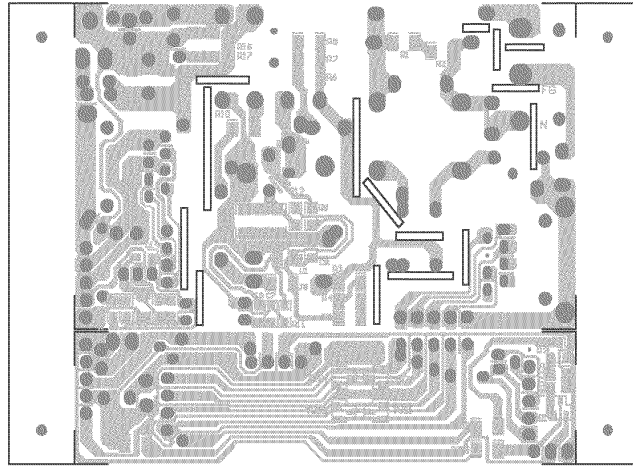
DRAWN BY: 廖明亮

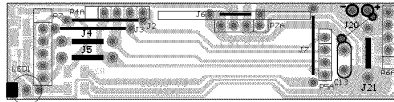
PAGE 3 OF 3

TAIWAN TRANSMORE ELECTRONIC CO., LID
DONG-GUAN SHEK-KTT TOP NATION ELECTRONI FACTORY.
TOP NATION ELECTRONIC(SU ZHOU) CO;LID

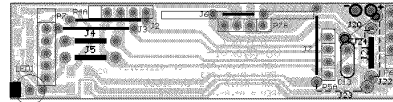




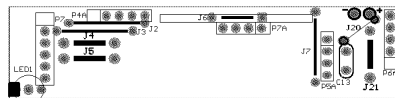




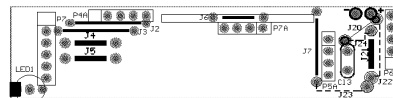
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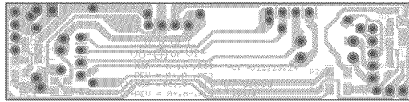
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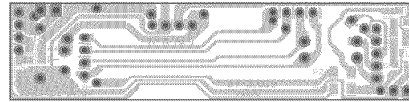
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ISS:9



ISS:9



ISS:8

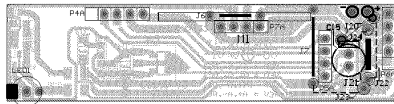
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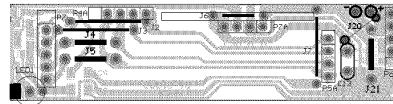
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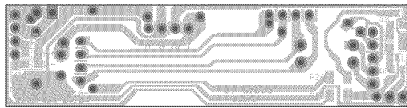
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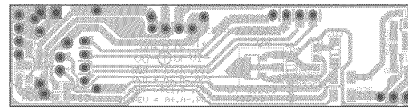
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ISS:8



ISS:8



ISS:10

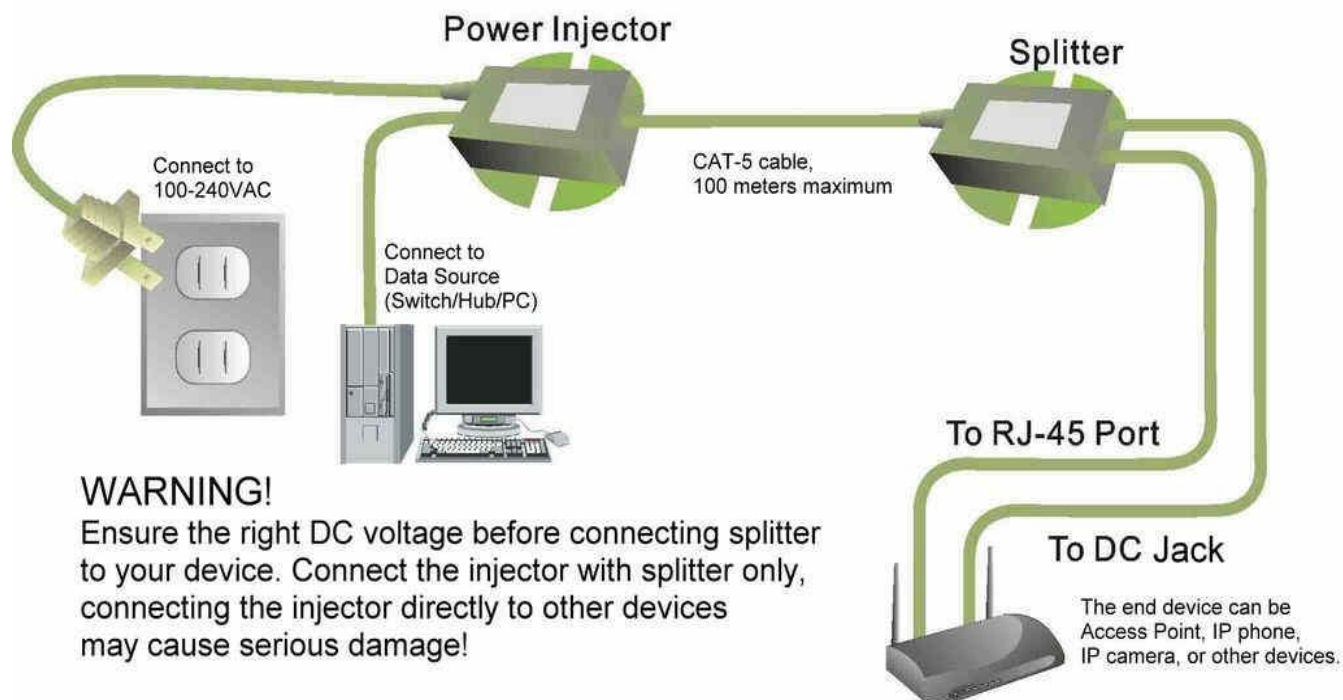


ISS:8



ISS:10

Application of POE (Power over Ethernet)



Test Record No. 1

--The manufacturer submitted representative production samples of Power Over Ethernet Device, Models MIT-07XX-1748CC, MIT-07XX-2024CC and MIT-07XX-1818CC (Where C can be 0-9, a-z, A-Z or blank and X can be D, T or blank. The CC means different parts suppliers; D means signal detector and T means signal processor.)

--Tests were conducted by Compliance Certification Services Inc. at No.11, Wu-Gong 6th Rd., Wu-Gu Industrial Park Taipei Hsien, Taiwan, R.O.C., under WTDP program and witnessed by a member of the UL staff.

--The results of this investigation, including construction review and testing, indicate that the products evaluated comply with the applicable requirements in the U.S. and Canadian (Bi-National) Standard for Safety of Information Technology Equipment, Including Electrical Business Equipment, CAN/CSA-C22.2 No. 60950-1-03 * UL 60950-1, including revisions through revision date July 7, 2006. Any information and documentation involving UL Mark services are provided on behalf of Underwriters Laboratories Inc. (UL) or any authorized licensee of UL.

--The following tests conducted in accordance with UL 60950-1, First Edition, Information Technology Equipment-Safety-Part 1: General Requirements were considered representative of the same tests required by Canadian National Standard, CNA/CSA-C22.2 No.60950-1, First Edition, Information Technology Equipment-Safety-Part 1: General Requirements.

The following tests were conducted:

Test	Testing Location/Comments
------	---------------------------

Test results are valid only for the tested equipment. These tests are considered representative of the products covered by this Test Report. The test methods and results of the above tests have been reviewed and found to be in accordance with the requirements in the Standard(s) referenced at the beginning of this Test Report.

The following supplements are provided as a part of this Test Record. NOTE: These supplements are only available to the Applicant via the CDA system.

Type	Supplement Id	Description
	2-01	CRD
	2-02	Datasheet

Test Record No. 2

(1) The manufacturer submitted representative production sample of Power over Ethernet Device, Models MIT-07XX-1748CC, MIT-07XX-2024CC, MIT-07XX-1818CC and MIT-07XX-2448CC employing the alternate circuit, change input current and add new Model MIT-07XX-2448CC.

(2) Only limited tests were performed on Model MIT-07XX-2448CC employing the alternate circuit, change input current and add new Model MIT-07XX-2448CC due to testing previously performed on the subject unit.

(3) All tests were conducted by Compliance Certification Services Inc., located at No. 11, Wu-Gong 6th Rd, Wu Gu Industrial Park, Taipei Hsien, Taiwan and witnessed by a member of the UL staff under the WTDP program.

(4) The results of this investigation, including construction review and testing, indicate that the products evaluated comply with the applicable requirements in the U.S. and Canadian (Bi-National) Standard for Safety of Information Technology Equipment, Including Electrical Business Equipment, CAN/CSA-C22.2 No. 60950-1-03, First Edition, including revisions through revision date July 7, 2006, and UL 60950-1, First Edition, including revisions through revision date October 31, 2007. Any information and documentation involving UL Mark services are provided on behalf of Underwriters Laboratories Inc. (UL) or any authorized licensee of UL.

(5) The following tests conducted in accordance with UL 60950-1, First Edition, Information Technology Equipment-Safety-Part 1: General Requirements were considered representative of the same tests required by Canadian National Standard, CAN/CSA-C22.2 No.60950-1, First Edition, Information Technology Equipment-Safety-Part 1: General Requirements.

The following tests were conducted:

Test	Testing Location/Comments
------	---------------------------

Test results are valid only for the tested equipment. These tests are considered representative of the products covered by this Test Report. The test methods and results of the above tests have been reviewed and found to be in accordance with the requirements in the Standard(s) referenced at the beginning of this Test Report.

The following supplements are provided as a part of this Test Record. NOTE: These supplements are only available to the Applicant via the CDA system.

Type	Supplement Id	Description
	2-03	CRD
	2-04	Datasheet

Test Record No. 3

- The manufacturer submitted representative production samples of Power Over Ethernet Device, Model(s) MIT-07NT-2448 and MIT-07JT-2448, employing the alternate 1). Upgrade standards to UL 60950-1, 2nd Edition, including revision dated 2011-12-19. 2). Revise Model names to Models MIT-07XXXXXX-1748CC, MIT-07XXXXXX-2024CC, MIT-07XXXXXX-1818CC and MIT-07XXXXXX-2448CC (Where C can be 0-9, a-z. A-Z or blank and X can be D, T, R, CI, H, N, J or blank, D means signal detector and T means signal processor, R means reverse, H means hi-temp and CI means current indicator, N, J and blank means alternate daughter board, N for iss:9, J for iss:10, blank for iss:8, CC means different parts suppliers) 3). Add two daughter boards, for N marked iss:9 and J marked iss:10.

- Unless otherwise noted in the list of tests, all tests were conducted by PSE INC TAIWAN, located at 9TH, FL-1, 80, SEC 2, GUANG FU RD, SAN CHUNG, NEW TAIPEI, TAIWAN, 241.

- The unit was considered for movable with exposed SELV circuit.

- Tests performed on Models MIT-07NT-2448 and MIT-07JT-2448 were considered to be representative of Model MIT-07XXXXXX-1748CC, MIT-07XXXXXX-2024CC, MIT-07XXXXXX-1818CC and MIT-07XXXXXX-2448CC (Where C can be 0-9, a-z. A-Z or blank and X can be D, T, R, CI, H, N, J or blank, D means signal detector and T means signal processor, R means reverse, H means hi-temp and CI means current indicator, N, J and blank means alternate daughter board, N for iss:9, J for iss:10, blank for iss:8, CC means different parts suppliers).

- Only limited tests were performed on Models MIT-07NT-2448 and MIT-07JT-2448 employing the alternate 1). Upgrade standards to UL 60950-1, 2nd Edition, including revision dated 2011-12-19. 2). Revise Model names to Models MIT-07XXXXXX-1748CC, MIT-07XXXXXX-2024CC, MIT-07XXXXXX-1818CC and MIT-07XXXXXX-2448CC (Where C can be 0-9, a-z. A-Z or blank and X can be D, T, R, CI, H, N, J or blank, D means signal detector and T means signal processor, R means reverse, H means hi-temp and CI means current indicator, N, J and blank means alternate daughter board, N for iss:9, J for iss:10, blank for iss:8, CC means different parts suppliers). 3). Add two daughter boards for N, marked iss:9 and J, marked iss:10. due to testing previously performed on the subject unit.

- Test results reported related only to the items tested.

The following tests were conducted:

Test	Testing Location/Comments
End Product Reference Page	
General Guidelines	
Power Supply Reference Page	
Input: Single-Phase (1.6.2)	
Limited Power Source Measurements (2.5)	
Heating (4.5.1, 1.4.12, 1.4.13)	
Overload of Operator Accessible Connector (5.3.7)	

Test results are valid only for the tested equipment. These tests are considered representative of the products covered by this Test Report. The test methods and results of the above tests have been reviewed and found to be in accordance with the requirements in the Standard(s) referenced at the beginning of this Test Report.

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Revision Date: 2013-04-30

Test Record

The following supplements are provided as a part of this Test Record. NOTE: These supplements are only available to the Applicant via the CDA system.

<u>Type</u>	<u>Supplement Id</u>	<u>Description</u>
Attachment	2-05	CRD
Datasheet	2-06	Datasheet