

## UL TEST REPORT AND PROCEDURE

<b>Standard:</b>	UL 60950-1, 2nd Edition, 2014-10-14 (Information Technology Equipment - Safety - Part 1: General Requirements) CAN/CSA C22.2 No. 60950-1-07, 2nd Edition, 2014-10 (Information Technology Equipment - Safety - Part 1: General Requirements)
<b>Certification Type:</b>	Listing
<b>CCN:</b>	QQGQ, QQGQ7 (Power Supplies for Information Technology Equipment Including Electrical Business Equipment)
<b>Product:</b>	SWITCHING POWER ADAPTER
<b>Model:</b>	GT-41069PWWVV-X.X-T3YZ
<b>Rating:</b>	<p>Where WW can be 01-90 for output power, VV can be 12 to 24 for output voltage, -X.X is optional for specifying output voltage deviations in 0.1 volt increments, -X.X is to be subtracted from rated voltage or blank, Y can be blank (for C14 inlet type) or A (for C6 inlet type), Z can be 0-9, A-Z or blank for marketing purposes only.</p> <p>- Input: 100-240 Vac, 1.5 A, 50-60 Hz.</p> <p>- Output: 12 - 24 Vdc, max. 90 W, 7.5 A/6.5 A - 3.75 A for GT-41069PWWVV-X.X-T3YZ</p> <p>For GT-41069P9012-T3, alternate electrical rating: Input 100-240Vac, 1.5A, 50-60Hz, Output 12Vdc, 4A at Tma 60</p> <p>See Enclosure Id 7-01 for details.</p>
<b>Applicant Name and Address:</b>	GLOBTEK (HONG KONG) LTD UNIT 1402, BENSON TOWER 74 HUNG TO RD KWUN TONG KOWLOON HONG KONG

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.

Issue Date: 2011-12-14  
2016-06-21

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Report Reference #

E341351-A30-UL

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Prepared by: Connie Tse/Suki Kwong

Reviewed by: Patty Li

### 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

Electronic components mounted on PWB and housed in a plastic enclosure.

### Model Differences

Models GT-41069PWWVV-X.X-T3YZ are identical to each other except for transformer, output rating, R43 rating, R46 rating, inlet type and model designation.

Where WW can be 01-90 for output power, VV can be 12 to 24 for output voltage, X.X is optional for specifying output voltage deviations in 0.1 volt increments, -X.X is to be subtracted from rated voltage or blank, Y can be blank (for C14 inlet type) or A (for C6 inlet type), Z can be 0-9, A-Z or blank for marketing purposes only.

### 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 : Special Application - Functional Earthing
- 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
- Altitude of test laboratory (m) : up to 2000
- Mass of equipment (kg) : 0.49 for GT-41069P9012-T Z, GT-41069PWWVV-X.X-T3 Z; 0.46 for GT-41069P9012-T3AZ, GT-41069PWWVV-X.X-T3AZ.

- The product was submitted and evaluated for use at the maximum ambient temperature (Tma) permitted by the manufacturer's specification of: 40 degree C and for model GT-41069P9012-T3, add Tma 60 degree C under output 12Vdc, 4A.
- 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 for Models GT-41069P9012-T3YZ and GT-41069PWW24-X.X-T3YZ.
- The following are available from the Applicant upon request: Installation (Safety) Instructions / Manual
- The equipment employs Functional Earthing per 2.6.2. As anticipated by the NOTE for 1.2.4, it does not conform to one of the common Classes (I, II, or III). The following insulation is provided between the primary and accessible dead metal parts and circuits: Reinforced, Double

#### Additional Information

Revision: 4787412187

- Upgraded to UL60950-1(2nd+AM1+AM2)
- Updated circuit schematic
- Withdrawn UL 60065 Evaluation

Revision History:

Issue 1, Amendment No. 2:

Add LPS test for Models GT-41069P9012-T3YZ and GT-41069PWW24-X.X-T3YZ.

Revision: SR8227620-T001

Transfer File from the File E336418, Vol. X6, E336418-A29 into the File E341351, Vol. X7, E341351-A30.

#### Additional Standards

The product fulfills the requirements of: N/A

#### Markings and instructions

Clause Title	Marking or Instruction Details
1.7.1 Power rating - Ratings	Ratings (voltage, frequency/dc, current)
1.7.1 Power rating - Company identification	Listee's or Recognized company's name, Trade Name, Trademark or File Number
1.7.1 Power rating - Model	Model Number
1.7.6 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 table "Electric Strength Test Special Constructions" 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 the table 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 models	T1	--	Primary to Secondary	300 0	--	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:**

#### **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
Label	Various	Various	70 degree C, if maximum surface temperature not specified.	PGDQ2 or PGJ12	UL	
Enclosure	--	--	Measured minimum thick 2.75 mm. Two halves construction, secured together by ultrasonic welding. See enclosure 4-01 and 4-02 for dimension details.	--	--	
- Enclosure material	SABIC INNOVATIVE Plastics China Ltd.	SE1X	V-1, 105 degree C, minimum 1.5 mm thick.	QMFZ2	UL	
Power supply cord (optional)	Various	Various	Detachable, limited to between 1.5 and 4.5 m long, 18 AWG, type SVT or SPT-2, minimum 125 Vac, 10 A, with NEMA 5-15P or 250 Vac, 10 A. The Other end in an appliance coupler (with cord-connected body, grounding type, suitable for cord size, rating not less than that of attachment plug)	ZJCZ and RTRT and AXUT, or ELBZ	UL	
Output cord	Various	Various	External used wire, Jacketed. FEP, PTFE, PVC, TFE, Neoprene, Polyimide or marked VW-1; FT-1, max. 3.05 m length, 80 degree C, min. 300 V, min. 22AWG. Mechanically secured and soldered to PWB.	ZJCZ, AVL2	UL	
Strain Relief for Output cord	Various	Various	Min V-1, plastic bushing integrally molded on output cord, see enclosure 4-03 for details	QMFZ2	UL	4-03
PWB	Various	Various	Rated V-1 minimum, 130	ZPMV2	UL	5-01

			degree C minimum			
Appliance Inlet	SUN FAIR ELECTRIC WIRE & CABLE (HK) CO LTD	S-02	2.5A, 250V, 70 degree C minimum	AXUT2	UL	
Appliance Inlet (Alternate)	TECX-UNIONS TECHNOLOGY CORP	TU-301 Series	15A, 250V, 105 degree C minimum	AXUT2	UL	
Fuse (FS1)	WALTER ELECTRONIC CO LTD	ICP	T 3.15A, 250Vac	JDYX2	UL	
Fuse (FS1) (Alternate)	DAS & SONS INTERNATIONAL LTD	385T1315	T 3.15A, 250Vac	JDYX2	UL	
Fuse (FS1) (Alternate)	Conquer Electronics Co Ltd	MST	T 3.15A, 250Vac	JDYX2	UL	
Fuse (FS1) (Alternate)	SAVE FUSETECH INC	SS-5	T 3.15A, 250Vac	JDYX2	UL	
Fuse (FS1) (Alternate)	Various	Various	Listed, T 3.15A, 250Vac	JDYX	UL	
Varistor (MOV1) (Optional)	Various	Various	Rated minimum 300 Vac, minimum 385 Vdc. Coating:V-2 min.	XUHT2	UL	
Line Choke (LF1) (Optional)	Various	NF00081	Varnished, see enclosure 4-04 for details, 130 degree C minimum.	--	--	4-04
- Core	--	--	Ferrite, measured OD 12 mm by 5 mm ID by 3.5 mm width	--	--	
- Coil	Various	Various	Rated minimum 130 degree C.	OBMW2	UL	
- Triple Insulated Winding Wire	Furukawa Electric Co., Ltd.	TEX-E	Rated 130 degree C.	OBJT2	UL	
- Tape	Various	Various	Rated 130 degree C.	OANZ2	UL	
- Varnish	Various	Various	Rated minimum 130 degree C.	OBOR2	UL	
X capcitor (CX1) (optional)	Ultra Tech Xiphi Enterprise Co., Ltd	HQX	Max. 0.47 uF, min. 250 Vac, 100 degree C, Class X1 or X2 type	FOWX2	UL	
X capcitor (CX1) (optional) (Alternate)	TENTA ELECTRIC INDUSTRIAL CO LTD	MEX	Max. 0.47 uF, min. 250 Vac, 100 degree C, Class X1 or X2 type	FOWX2	UL	

X capcitor (CX1) (optional) (Alternate)	CHENG TUNG INDUSTRIAL CO LTD	CTX	Max. 0.47 uF, min. 250 Vac, 100 degree C, Class X1 or X2 type	FOWX2	UL	
Line Choke (LF2) (Optional)	Various	NF00083	See enclosure 4-05 for details, 130 degree C minimum.	--	--	4-05
- Core	--	--	Ferrite, measured OD 21.5mm by 6 mm ID by 11 mm width	--	--	
- Coil	Various	Various	Rated minimum 130 degree C.	OBMW2	UL	
Bleeder resistor (RS1, RS2)	--	--	Each rated 1M ohm, 1/4W SMD type, connected in series	--	--	
Bridge Diode (BD1)	--	--	Rated 4A, 600 V minimum	--	--	
Storage Capacitor (C4)	--	--	Rated 400 V, maximum 120uF, minimum 105 degree C, provided with integral pressure relief	--	--	
PFC Choke (L1)	Various	RC00136	Varnished, see enclosure 4-06 for details, 130 degree C minimum.	--	--	4-06
- Bobbin	Chang Chun Plastics Co., Ltd.	T375J	V-0, 150degree C, Phenolic, thickness 0.8mm minimum	QMFZ2	UL	
- Bobbin (Alternate)	SUMITOMO BAKELITE CO LTD	PM-9820	V-0, 150degree C, Phenolic, thickness 0.71mm minimum	QMFZ2	UL	
- Core	--	--	Ferrite, overall 32.0 by 19.5 by 30.0 mm..	--	--	
- Coil	Various	Various	Rated minimum 130 degree C.	OBMW2	UL	
- Tape	Various	Various	Rated 130 degree C.	OANZ2	UL	
- Varnish	Various	Various	Rated minimum 130 degree C.	OBOR2	UL	
Line Choke (L2)	Various	RC00134	See enclosure 4-07 for details, 130 degree C minimum.	--	--	4-07
- Core	--	--	Ferrite, measured OD 21.5mm by 6 mm ID by 9 mm width	--	--	
- Coil	Various	Various	Rated minimum 130 degree C.	OBMW2	UL	
Tubing/Sleeving	Great Holding Industrial Co. Ltd.	TFL, TFS, TFT	Rated 200 degree C	YDPU2	UL	
Heat Sink (HS1) (Primary)	--	--	Aluminum material, see enclosure 4-08 for details	--	--	4-08



Heat Sink (HS1) (Primary) (Alternate)	--	--	Aluminum material, see enclosure 4-09 for details	--	--	4-09
Heat Sink (HS2) (Secondary)	--	--	Aluminum material, see enclosure 4-10 for details	--	--	4-10
Heat Sink (Cover) (Primary)	--	--	Aluminum material, see enclosure 4-11 for details	--	--	4-11
Heat Sink (Chassis) (Primary)	--	--	Aluminum material, see enclosure 4-12 for details	--	--	4-12
Tubing (For HS1)	CHANGYUAN ELECTRONICS (SHENZHEN) CO LTD	CB-HFT	FEP, PTFE, PVC, TFE, neoprene, polyimide or marked VW-1; rated minimum 125 degree C, minimum 300 V, see enclosure 4-08 and 4-09 for details, thickness 0.4 mm minimum.	YDPU2	UL	
Tubing (For HS2)	CHANGYUAN ELECTRONICS (SHENZHEN) CO LTD	CB-HFT	FEP, PTFE, PVC, TFE, neoprene, polyimide or marked VW-1; rated minimum 125 degree C, minimum 300 V, see enclosure 4-10 for details, thickness 0.4 mm minimum.	YDPU2	UL	
Transformer (T1) (For Models with output 12V to 15.9V.)		XF00500	See enclosure 4-15 for details	--	--	4-15
Transformer (T1) (For Models with output 16V- 24V.)		XF00501	See enclosure 4-16 for details	--	--	4-16
- Insulation system for Transformer (T1)			Class B, 130 degree C	OBJY2	UL	
- Core	--	--	EE type, Ferrite, overall each 28.5mm by 28.5 mm by 8 mm	--	--	
- Bobbin	Chang Chun Plastics Co., Ltd.	T375J	V-0, 150degree C, Phenolic, thickness 0.8mm minimum	QMFZ2	UL	
- Bobbin (Alternate)	SUMITOMO BAKELITE CO LTD	PM-9820	V-0, 150degree C, Phenolic, thickness 0.71mm minimum	QMFZ2	UL	
- Tubing/Sleeving	Great Holding Industrial Co. Ltd.	TFL, TFS,	Rated 200 degree C	YDPU2	UL	

		TFT				
- Varnish	John C. Dolph Co.	BC-346A	Rated minimum 200 degree C.	OBOR2	UL	
- Varnish (Alternate)	P D George/Viking	V1630FS	Rated minimum 130 degree C.	OBOR2	UL	
- Insulation Tape	3M Company	1350T-1	130 degree C.	OANZ2	UL	
- Insulation Tape (Alternate)	3M Company	1350F(#)	130 degree C.	OANZ2	UL	
- Insulation Tape (Alternate)	3M Company	44	130 degree C.	OANZ2	UL	
- Insulation Tape (Alternate)	Bondtec Pacific Co., Ltd.	370S	130 degree C.	OANZ2	UL	
- Triple Insulated Winding Wire	Great Leoflon Industrial Co., Ltd.	TRW(B)	Rated 130 degree C.	OBJT2	UL	
Semiconductor (US1, US2, US3)	--	--	Rated 0.7A, minimum 650 V.	--	--	
Bridging -Capacitor (CY1)	TDK Corp	CD	Rated maximum 2200 pF, minimum 250 Vac, 125 degree C, Class Y1	FOWX2	UL	
Bridging -Capacitor (CY1) (Alternate)	Success Electronics Co Ltd	SE	Rated maximum 2200 pF, minimum 250 Vac, 125 degree C, Class Y1	FOWX2	UL	
Bridging -Capacitor (CY1) (Alternate)	WALSIN TECHNOLOGY CORP / Pan Overseas	AH	Rated maximum 2200 pF, minimum 250 Vac, 125 degree C, Class Y1	FOWX2	UL	
Transistor (Q1, Q2)	--	--	Rated 10A, minimum 600 V.	--	--	
Optical Isolator (U1)	Sharp Corp., Electronic Components Group	PC817	Minimum 3000 Vac isolation. Double protection.	FPQU2	UL	
Optical Isolator (U1) (Alternate)	Bright LED Electronics Corp.	BPC-817xxxxxx	Minimum 3000 Vac isolation. Double protection.	FPQU2	UL	
Optical Isolator (U1) (Alternate)	Lite-On Technology Corp.	LTV-817	Minimum 3000 Vac isolation. Double protection.	FPQU2	UL	
Internal Plastic Part Materials	Various	Various	Rated V-2 minimum.	QMFZ2	UL	
Internal Wiring (Primary)	Various	Various	FEP, PTFE, PVC, TFE, neoprene, Polyimide or marked VW-1; min. 300 V, min. 80	AVLV2	UL	

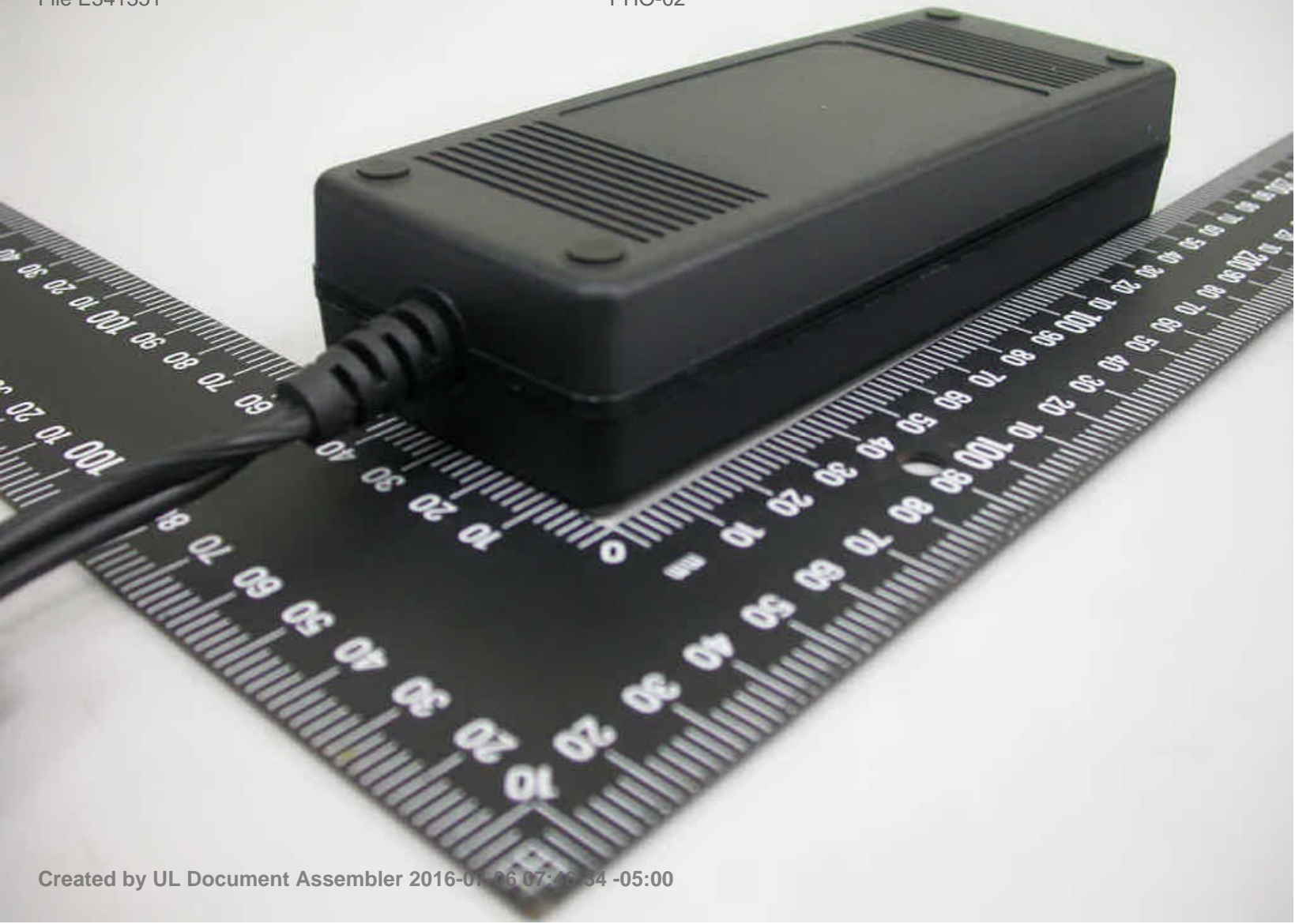
			degree C.			
Current sense resistor (R1)	--	--	0.27 ohm, 2W.	--	--	
Current sense resistor (R2)	--	--	0.24 ohm, 2W.	--	--	
Glue	Various	Various	V-2 min. Components (LF1, LF2, L1, L2, C4, R1, R2, Output cord) need	QMFZ2	UL	
- Tubing for Functional Earthing	GUANGZHOU KAIHENG ENTERPRISE GROUP	K-2	FEP, PTFE, PVC, TFE, neoprene, polyimide or marked VW-1; rated minimum 125 degree C, minimum 300 V, thickness 0.4 mm minimum.	YDPU2	UL	
Insulation Tape (between C10 and Heat Sink (Cover))	3M Company	1350T-1	130 degree C.	OANZ2	UL	
Insulation Tape (between C10 and Heat Sink (Cover)) (Alternate)	Bondtec Pacific Co., Ltd.	370S	130 degree C.	OANZ2	UL	
Insulation sheet (between PWB and Appliance Inlet)	Various	Various	V-2 min, see Enclosure 4-13 for details	QMFZ2	UL	4-13
Insulation sheet for Heat Sink (Chassis)	FORMEX,DIV OF IL TOOL WORKS INC,FRMRLY FASTEX,DIV OF IL TOOL WORKS INC	FORMEX GK	V-2 min, thickness 0.4 mm minimum, see Enclosure 4-14 for details	QMFZ2	UL	4-14

## Enclosures

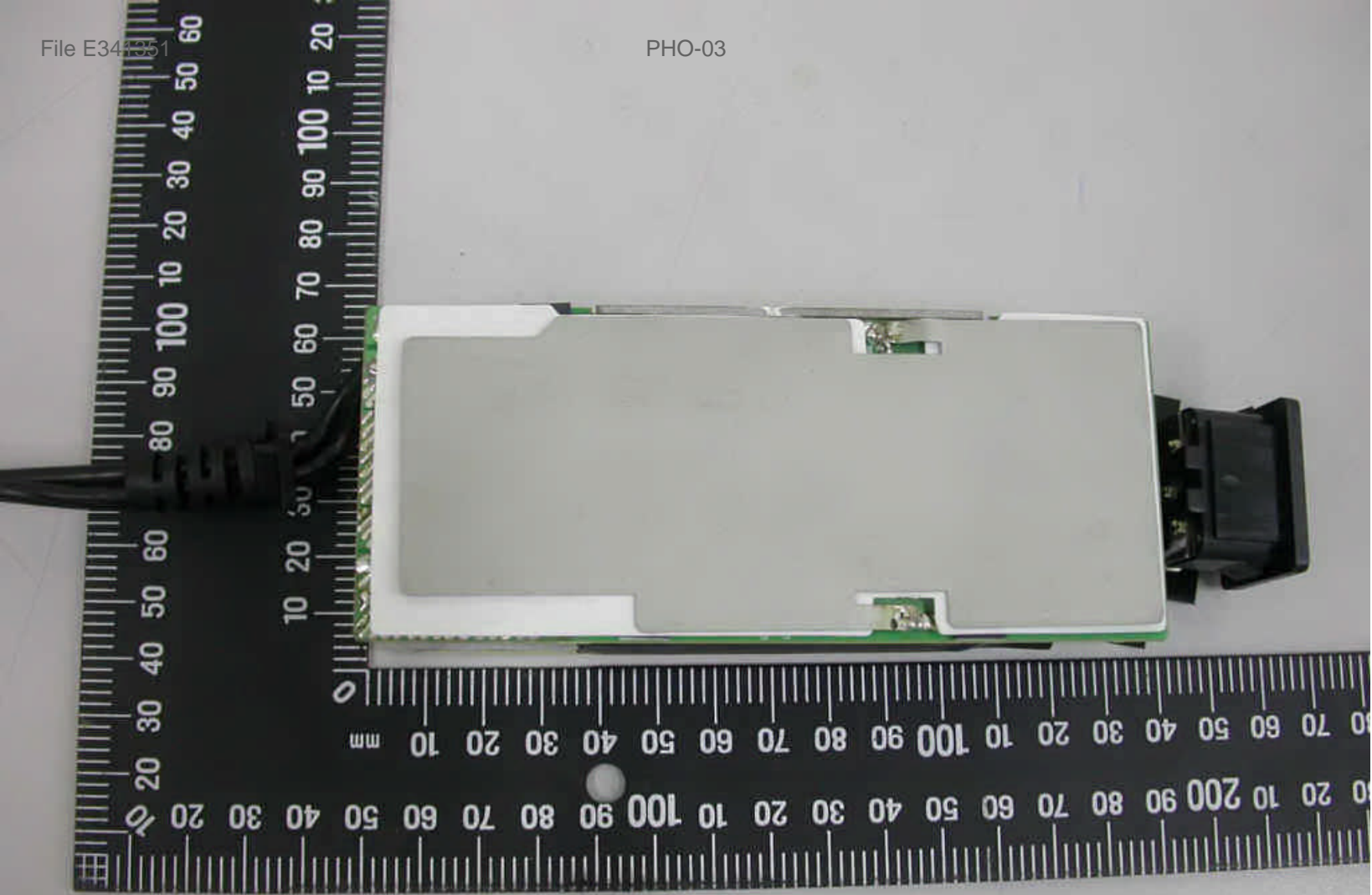
<u>Type</u>	<u>Supplement Id</u>	<u>Description</u>
Photographs	3-01	Overall View of GT-41069P9012-T3 Z, GT-41069PWWVV-X.X-T3 Z - 1
Photographs	3-02	Overall View of GT-41069P9012-T3 Z, GT-41069PWWVV-X.X-T3 Z - 2
Photographs	3-03	Internal View of GT-41069P9012-T3 Z, GT-41069PWWVV-X.X-T3 Z - 1
Photographs	3-04	Internal View of GT-41069P9012-T3 Z, GT-41069PWWVV-X.X-T3 Z - 2
Photographs	3-05	Internal View of GT-41069P9012-T3 Z, GT-41069PWWVV-X.X-T3 Z - 3
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Photographs	3-11	Internal View of GT-41069P9012-T3AZ, GT-41069PWWVV-X.X-T3AZ - 3
Photographs	3-12	Internal View of GT-41069P9012-T3AZ, GT-41069PWWVV-X.X-T3AZ - 4
Diagrams	4-01	Plastic Enclosure Dimension of GT-41069P9012-T3 Z, GT-41069PWWVV-X.X-T3 Z
Diagrams	4-02	Plastic Enclosure Dimension of GT-41069P9012-T3AZ, GT-41069PWWVV-X.X-T3AZ
Diagrams	4-03	Strain Relief
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Diagrams	4-05	Line Choke (LF2)
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Diagrams	4-07	Line Choke (L2)
Diagrams	4-08	Heat Sink (HS1) of GT-41069P9012-T3 Z, GT-41069PWWVV-X.X-T3 Z
Diagrams	4-09	Heat Sink (HS1) of GT-41069P9012-T3AZ, GT-41069PWWVV-X.X-T3AZ
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Diagrams	4-11	Heat Sink (Cover)

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Diagrams	4-14	Insulation sheet for Heat Sink (Chassis)
Diagrams	4-15	Transformer (T1) (For GT-41069P9012-T3YZ) (P/N: XF00500)
Diagrams	4-16	Transformer (T1) (For GT-41069PWWVV-X.X-T3YZ) (P/N: XF00501) (Alternate)
Schematics + PWB	5-01	PWB Layout
Schematics + PWB	5-02	Circuit Schematic
Miscellaneous	7-01	Model difference













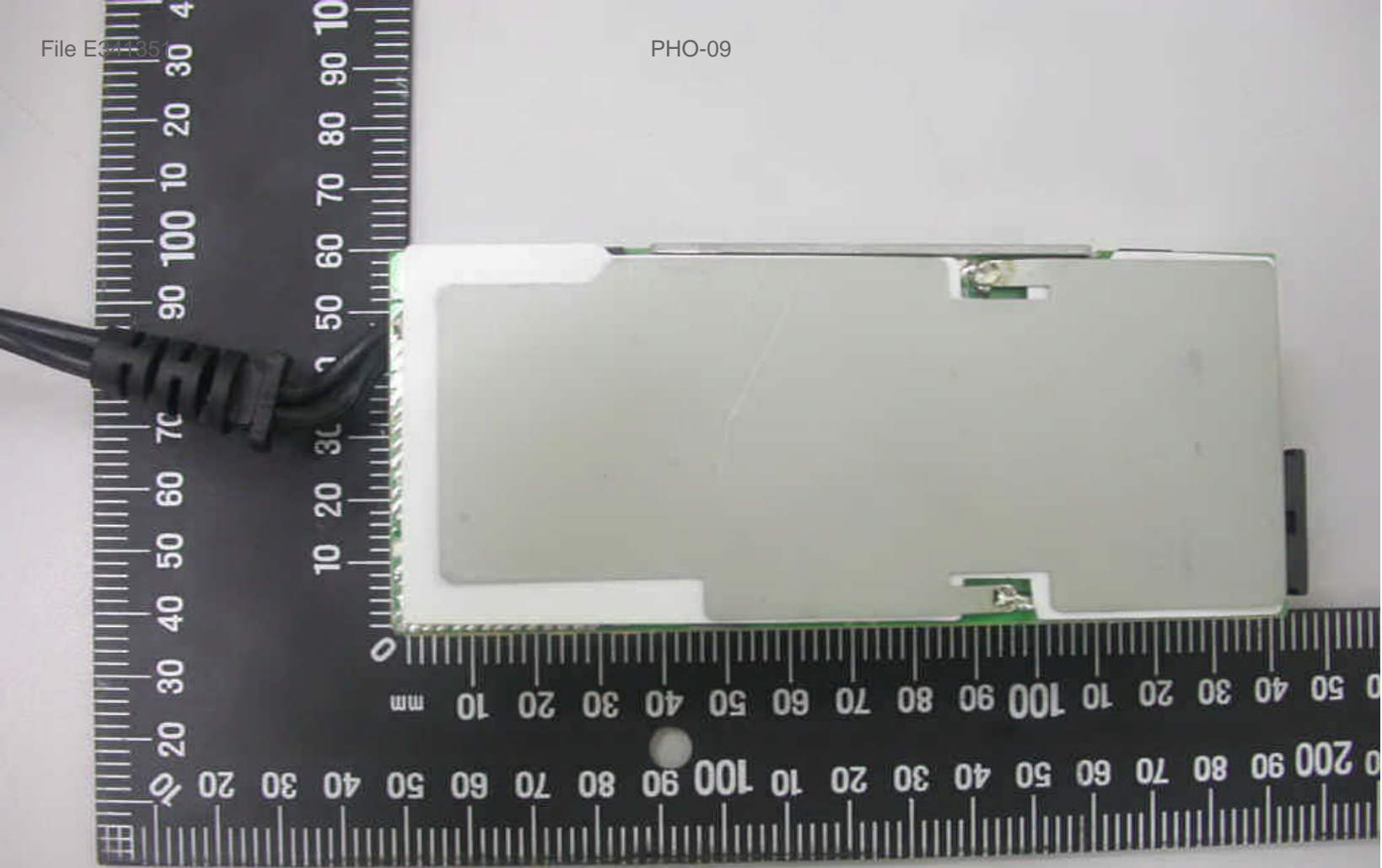


















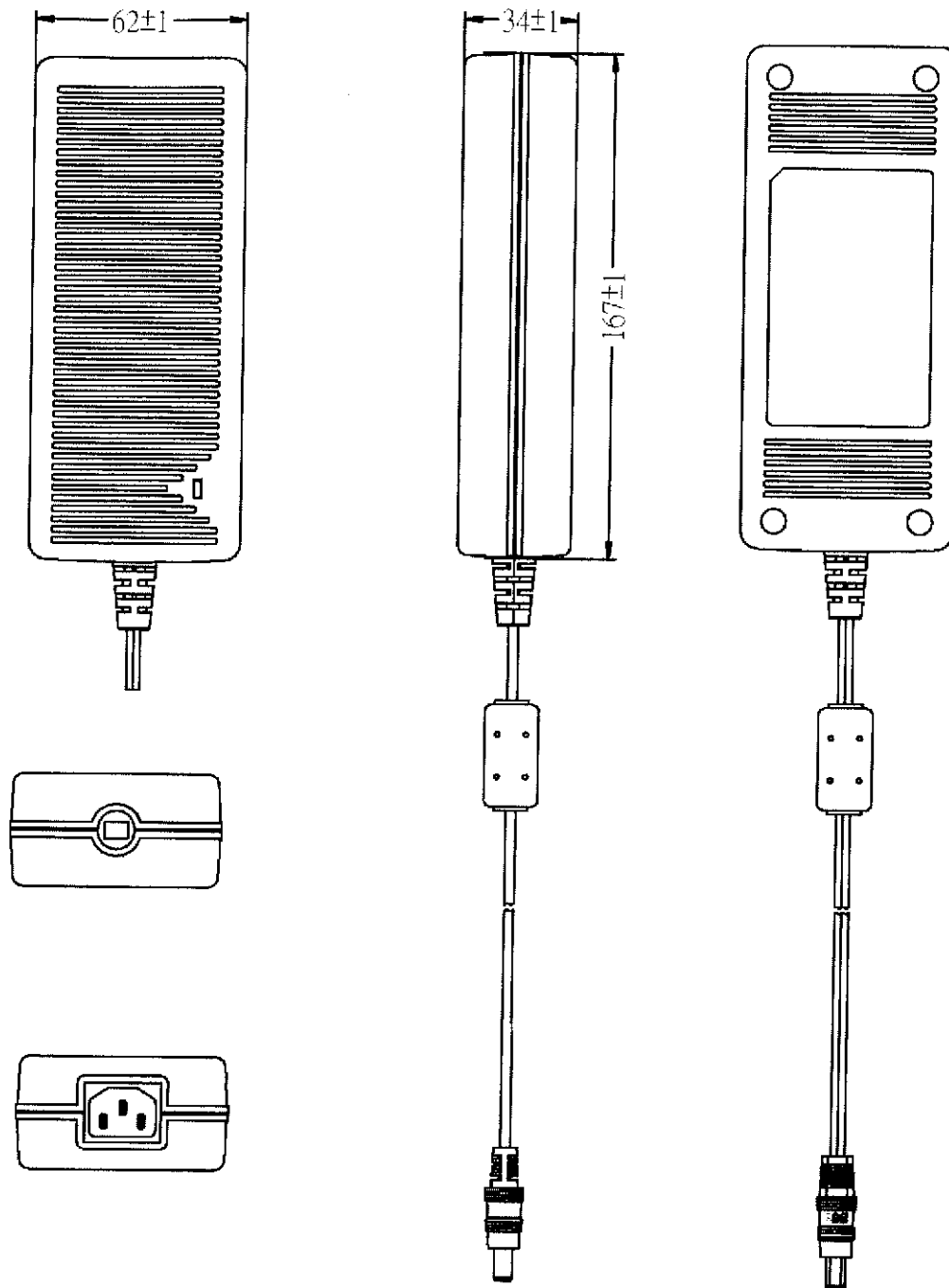


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## REVISION

REV	DESCRIPTION	DATE	APPROVED
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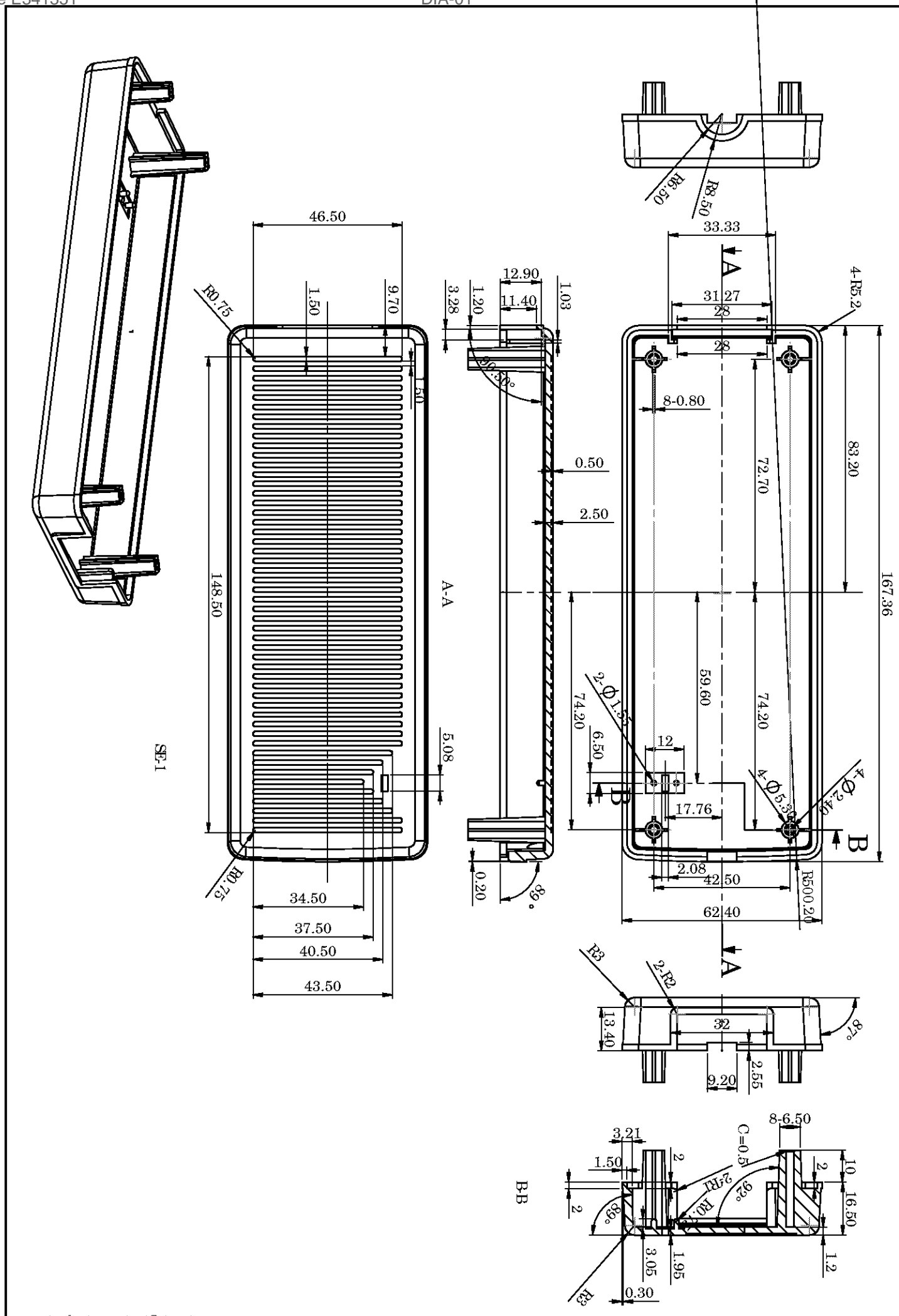


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		XXX ±0.05		
		MILLIMETERS ANGULAR		
		XXX ±0.3		
		XXX ±0.1		
DRAWN:	DATE:	FSCN No.:	SIZE	MODEL NO:
			A	GT-41069P T3 CASE
APRVD BY:	DATE:	SCALE:	PART NO:	REV.
			900111	A
SHEET 1 OF 1				

**GlobTek, Inc.**  
www.globtek.com

186 Veterans Dr. Northvale, NJ 07647  
Tel. 201-784-1000 Fax 201-784-0111

DWG TITLE: (60 CHAR. MAX)

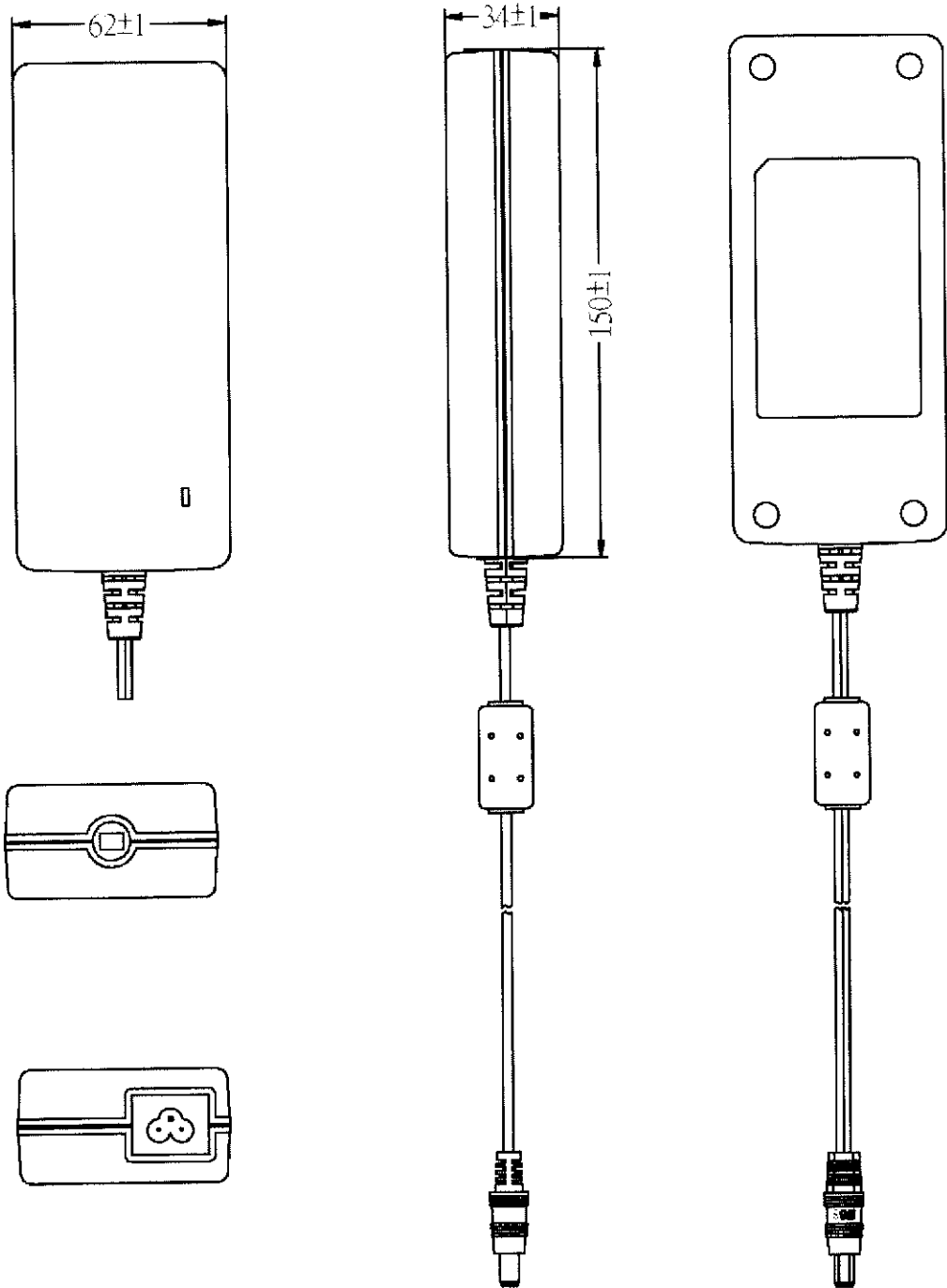





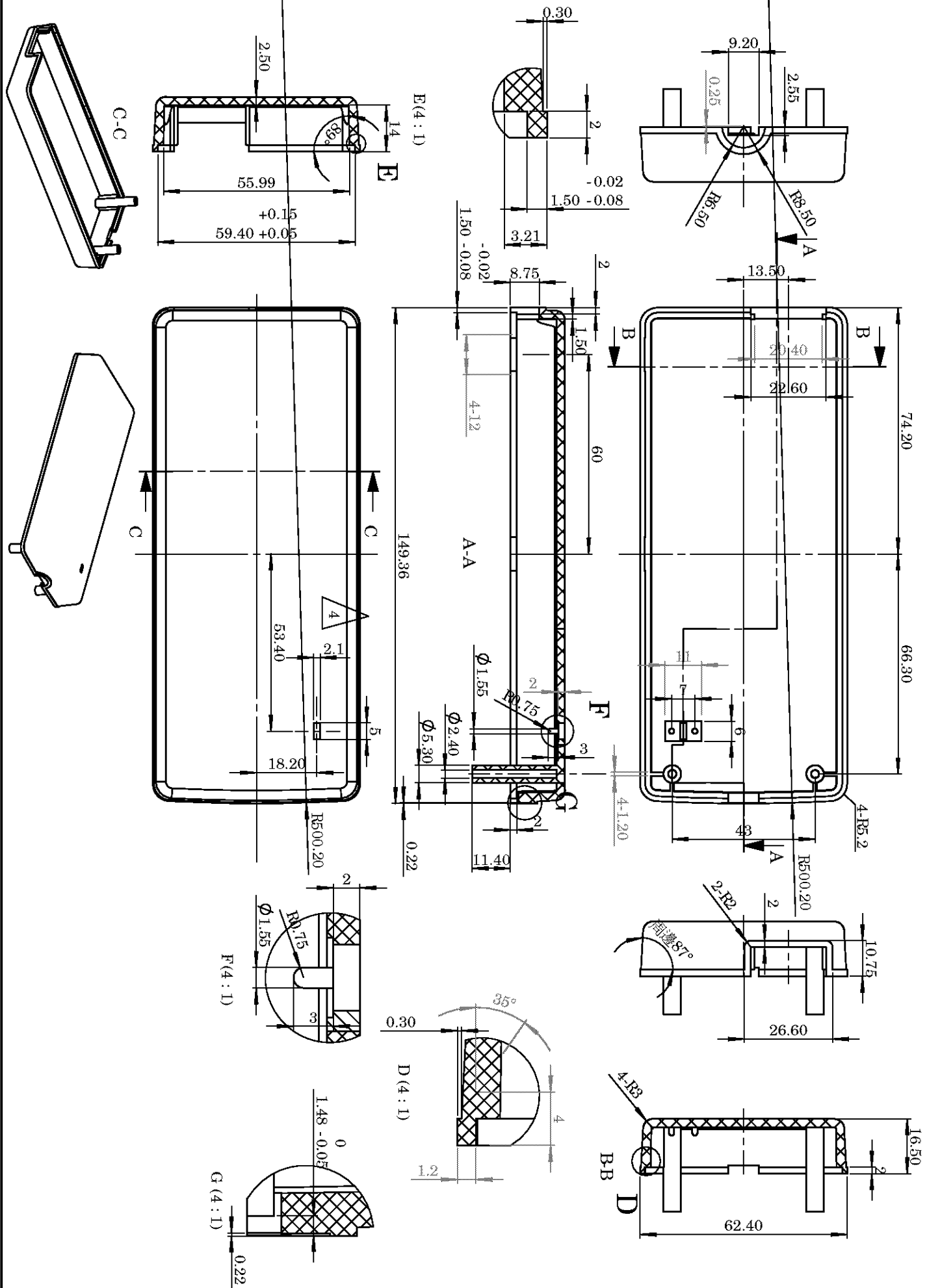
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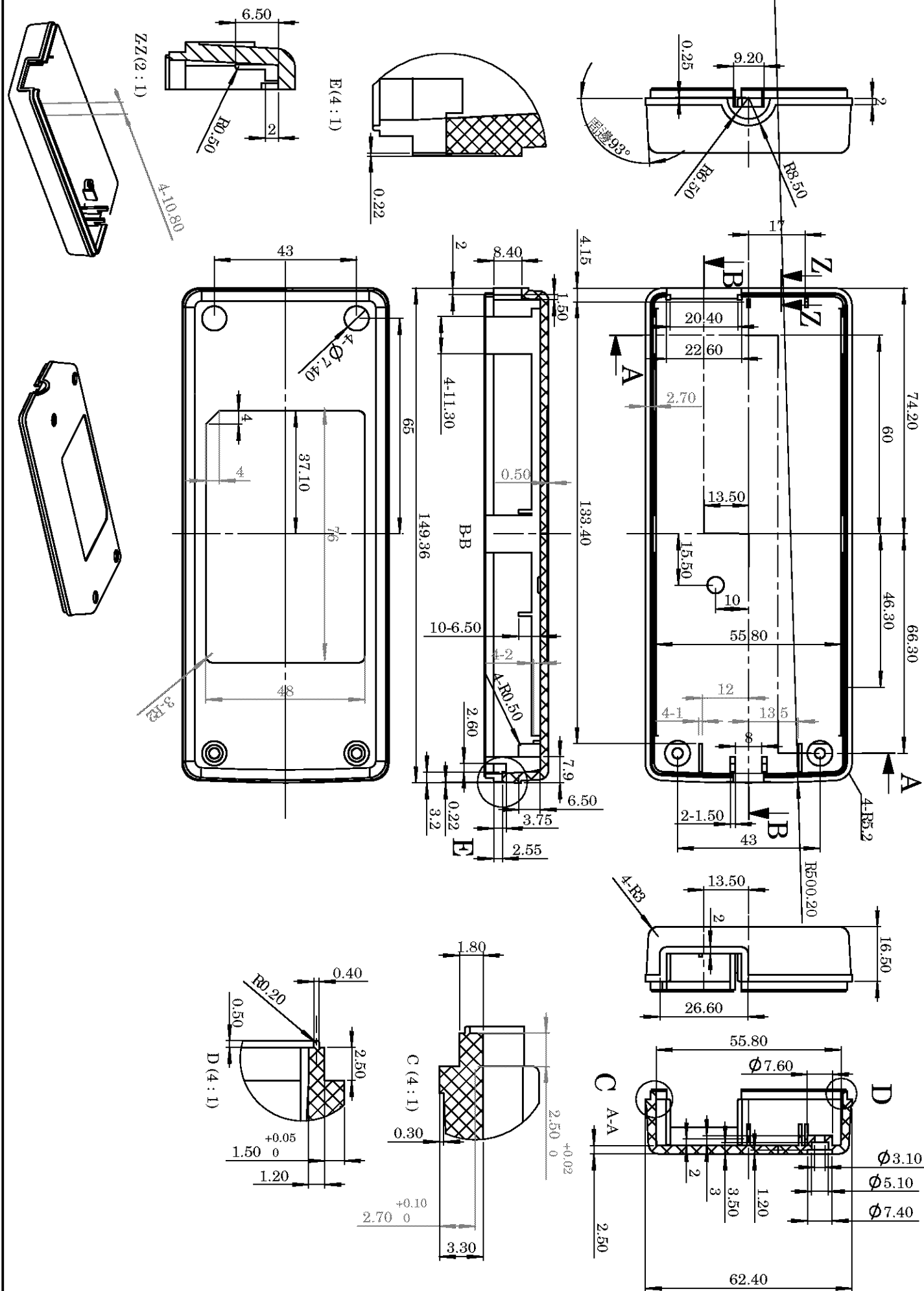
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REV	DESCRIPTION		
A	INITIAL RELEASE	10-15-2008	HM



DASH NO.	PART NO.					REV.	DESCRIPTION					NOTES
TABULATION BLOCK												
REVISION	A	A				TOLERANCES:		 <b>GlobTek, Inc.</b> www.globtek.com	186 Veterans Dr. Northvale, NJ 07647 Tel. 201-784-1000 Fax 201.784.0111			
SHEET	1	2				DIMENSIONS ANGULAR						
						XX.XX ± 0.1						
						XXX.XX ± 0.05						
INIT. BY:		DATE:				MILLIMETERS ANGULAR		DWG TITLE: (60 CHAR. MAX)				
						XX.XX ± 0.1						
DRAWN:		DATE:		FSCN No.:		SIZE A		MODEL NO: GT-41069P T3A CASE			REV. A	
APRVD BY:		DATE:		SCALE:				PART NO: 900111			SHEET 1 OF 1	





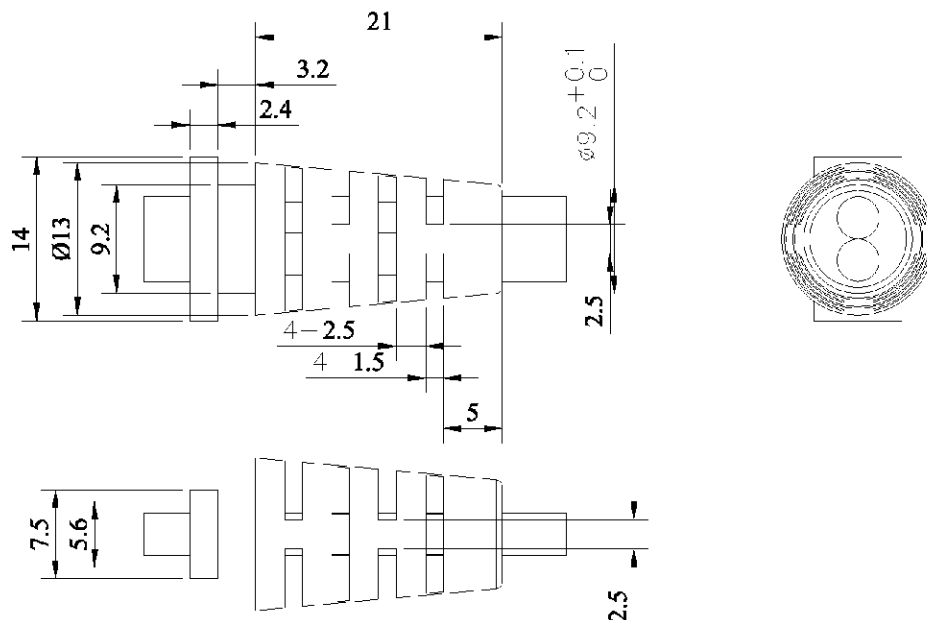
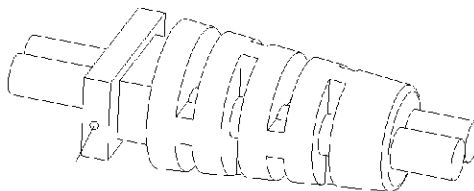
PROPRIETARY INFORMATION:

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DIA-03

REVISION

REV	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	10-15-2008	HM



#16AWG :  $\phi 3.6 \times 7.2$   
 #18AWG SPT 2 :  $\phi 3.5 \times 7.0$   
 #18AWG SPT 1 :  $\phi 2.7 \times 5.4$   
 #20AWG JI 2468:  $\phi 1.9 \times 3.8$

DASH NO.	PART NO	REV.	DESCRIPTION	NOTES
<b>TABULATION BLOCK</b>				
REVISION	A	A		
SHEET	1	2		
INIT.BY:		DATE:		<b>TOLERANCES:</b> DECIMALS ANGULAR .xx +/- 0.1 +/- 1° .xxx +/- .005 MILLIMETERS ANGULAR .xx +/- 0.3 +/- 1° .xxx +/- .013
DRAWN:		DATE:		
APRVD BY:		DATE:		<b>GlobTek, Inc.</b> www.globtek.com 186 Veterans Dr. Northvale, NJ 07647 Tel. 201-784-1000 Fax 201.784.0111
SCALE:		FSCN No.:	SIZE A	DWG TITLE: (60 CHAR. MAX)
PART NO:		MODEL NO: GT-41069P STRAIN RELEIF		REV. A
SHEET 1 OF 1				



PROPRIETARY INFORMATION:

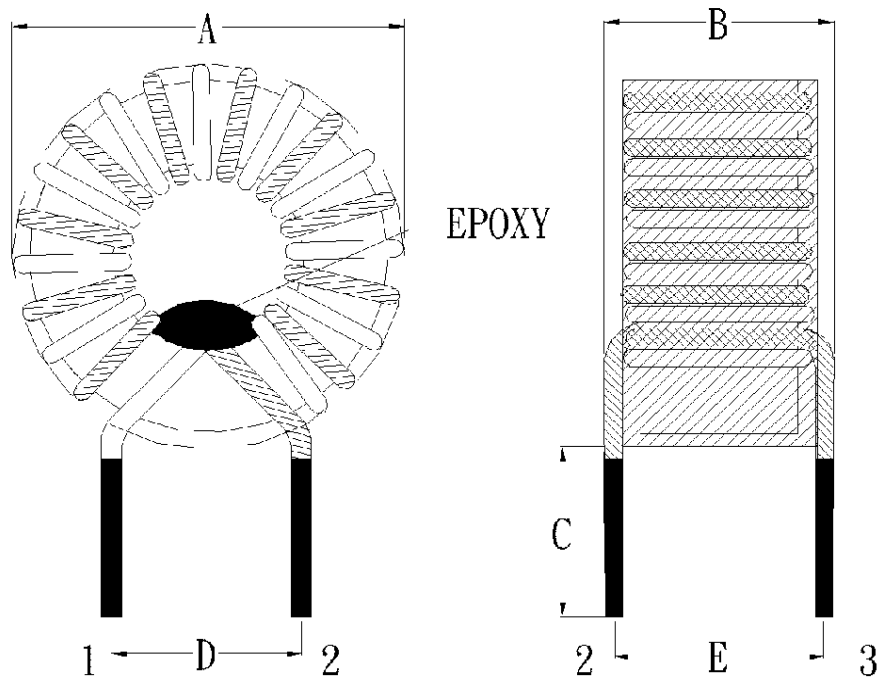
PROPRIETARY OF GLOBTEK, INC. ANY REPRODUCTION, DISCLOSURE OR USE OF THIS DRAWING, IN WHOLE OR IN PART, IS HEREBY PROHIBITED EXCEPT AS SPECIFIED IN WRITING BY GLOBTEK, INC.

DIA-04

REVISION


REV	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	10-15-2008	HM

1.OUTLINE DIMENSION: (UNIT: mm)



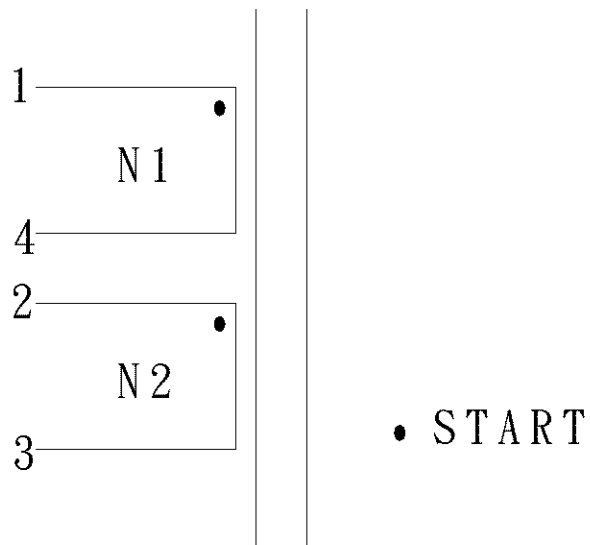
\*.包成品外圍膠帶 UL(Y) ITS.

DIM	A	B	C	D	E					
	MAX	MAX	+/-2.0	REF	REF					
SPEC	13.0	6.5	10.0	5.5	3.5					

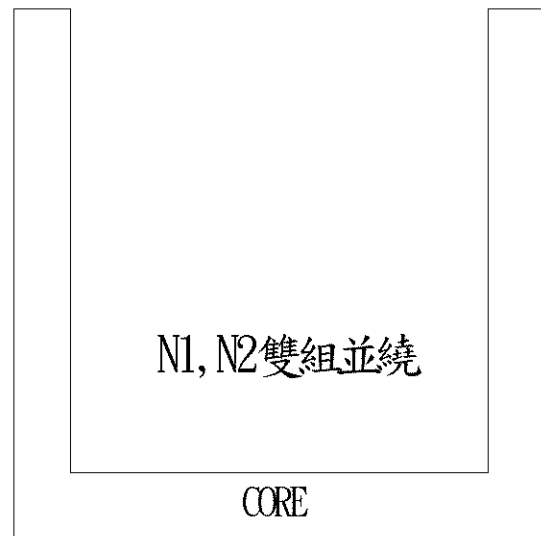
DASH NO.	PART NO		REV.	DESCRIPTION		NOTES
TABULATION BLOCK						
REVISION	A	A				
SHEET	1	2				
INIT.BY:		DATE:		TOLERANCES: DECIMALS ANGULAR .XX +/- 0.1 .XXX +/- .005		 <b>GlobTek, Inc.</b> <a href="http://www.globtek.com">www.globtek.com</a> 186 Veterans Dr. Northvale, NJ 07647 Tel. 201-784-1000 Fax 201.784.0111
DRAWN:		DATE:		MILLIMETERS ANGULAR .XX +/- 0.3 .XXX +/- .013		
APRVD BY:		DATE:		FSCN No.:	SIZE A	DWG TITLE: (60 CHAR. MAX)
						MODEL NO: GT-41069P CHOKE COIL
						REV. A
						PART NO: NF00081
						SHEET 1 OF 1

## SPECIFICATION

## 2.SCHEMATIC:



## 3.WINDING SEQUENCE:



## 4.WINDING TABLE:

Winding No (組別)	Margin Tape (檔牆膠帶)	PIN (腳位)	Wire&Wire Copper (線徑 X 股數)	Truns (圈數)	Winding Tape (繞線方式)	Tape Layer (膠帶層次)	Tube (套管)
N 1	0	1 ~ 4	0.60 $\phi$ x 1P	9 TS	雙組並繞	0	0
N 2	0	2 ~ 3	0.60 $\phi$ x 1P (三層絕緣線)	9 TS		1TS	0

## NOTE:

1. 圈數以內圈計算.
2. 繞線須平整美觀,銅線漆包膜不可破損或脫落.
3. N1,N2 為雙組並繞,N2 使用三層絕緣繞制,須先脫皮再鍍錫.
4. 產品須含浸.
5. 各部分尺寸請參照外觀圖所示.

DESCRIPTION	CHOKE COIL	Customer P/N	NF00081	DATE	2008/03/27
APPROVED	張志鋒	CHECKED	許秀連	REPORTED	劉 華

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DIA-05

REVISION

REV

DESCRIPTION

DATE

APPROVED

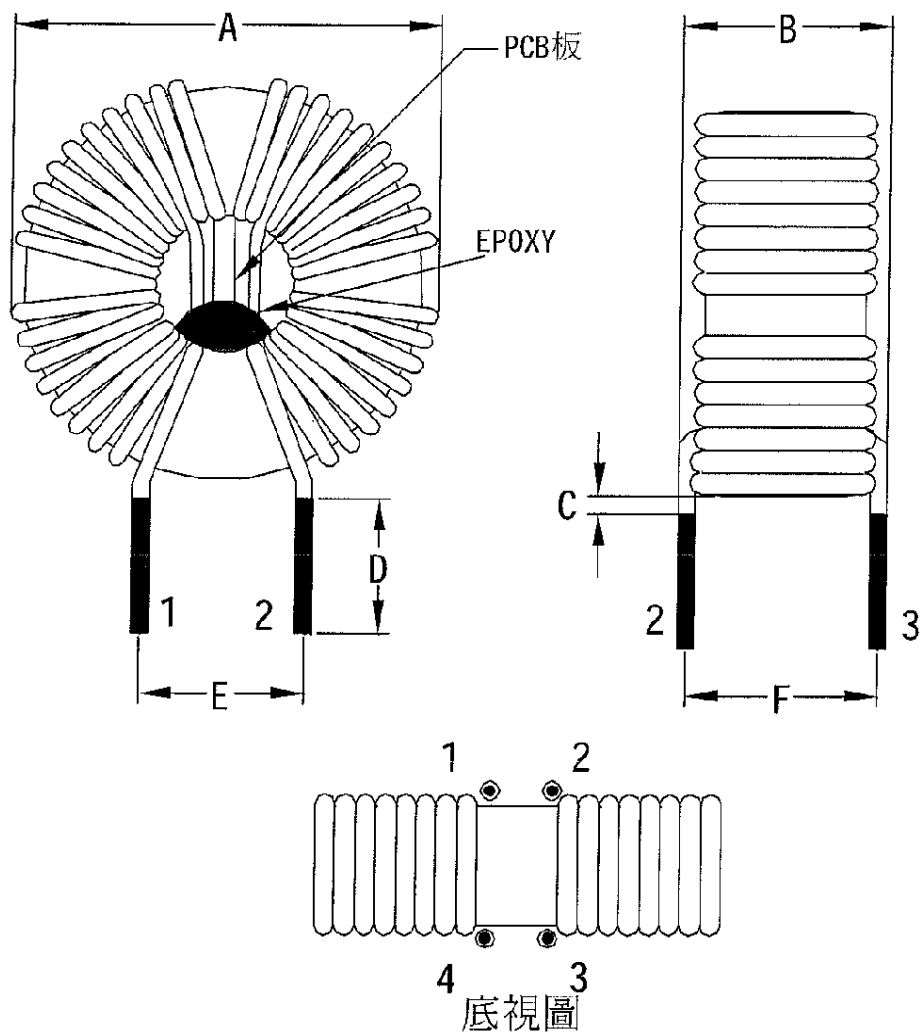
A

INITIAL RELEASE

10-15-2008

HM


1. OUTLINE DIMENSION: (UNIT: mm)



產品進出線及 PCB 板須點膠固定 (如外觀圖所示)

外觀圖中"B"項尺寸包括進出線。

DIM	A	B	C	D	E	F				
	MAX	MAX		+/-1.0	+/-0.5	+/-0.5				
SPEC	21.5	14.0	0~1	8.0	6.0	11.5				

DASH NO.		PART NO		REV.		DESCRIPTION				NOTES			
TABULATION BLOCK													
REVISION		A	A					TOLERANCES: DECIMALS    ANGULAR .xx +/- .0.1    +/- 1° .xxx +/- .005		 <b>GlobTek, Inc.</b> 186 Veterans Dr. Northvale, NJ 07647 Tel. 201-784-1000    Fax 201.784.0111 <a href="http://www.globtek.com">www.globtek.com</a>			
SHEET		1	2										
INIT.BY:		DATE:		MILLIMETERS    ANGULAR .xx +/- .0.3    +/- 1° .xxx +/- .013		DWG TITLE: (60 CHAR. MAX)							
DRAWN:		DATE:		FSCN No.:		SIZE A		MODEL NO: GT-41069P CHOKE COIL				REV. A	
APRVD BY:		DATE:		SCALE:		PART NO: NF00083				SHEET 1 OF 1			

SPECIFICATION

2.SCHEMATIC:

1 ——— N1 ——— 4

2 ——— N2 ——— 3

• START

3.WINDING SEQUENCE:

N1 N2

CORE

4.WINDING TABLE:

Winding No (組別)	Margin Tape (檔牆膠帶)	PIN (腳位)	Wire&Wire Copper (線徑 X 股數)	Truns (圈數)	Winding Tape (繞線方式)	Tape Layer (膠帶層次)	Tube (套管)
N 1	0	1 ~ 4	0.55 ϕ x 1P	57 TS	半 繞	0	0
N 2	0	2 ~ 3	0.55 ϕ x 1P	57TS	半 繞	0	0

NOTE:

1. 產品圈數以內圈計算.
2. 繞線須平整,美觀.銅線漆包膜不可有脫落,破損.
3. N1,N2 爲半繞,且爲十字繞法, N1,N2 間須用 1.6mm PCB 板隔開.
4. 產品不須含浸.
5. 各部分尺寸請參照外觀圖所示.

DESCRIPTION	CHOKE COIL	Customer P/N	NF00083	DATE	2008/03/29
APPROVED	張志鋒	CHECKED	許秀連	REPORTED	石元愛



SPECIFICATION

2.SCHEMATIC: (線路圖)

FRI

2

N1

6

SEC

10

N2

12

• START

TF TUBE

3.WINDING SEQUENCE:(剖面圖)

PIN

TOP

TAPE LAYER

3L

2L

1L

1L

1L

1L

1L

1L

BOBBIN

GAP:研磨

4.WINDING TABLE:

Winding No (組別)	Margin Tape (檔牆膠帶)	PIN (腳位)	Wire&Wire Copper (線徑 X 股數)	Truns (圈數)	Winding Tape (繞線方式)	Tape Layer (膠帶層次)	Tube (套管)
N1	0	2 ~ 6	(0.1 ¢ x 40P) x1P	54TS	密 繞	2 L	18*10/18*10
N2	0	10 ~12	0.3 ¢ x 1P	9TS	疏 繞	3 L	26*11/26*11

- NOTE:
- 1. 產品不須加 MARGIN TAPE,各進出線均須加 TF TUBE.
  - 2 .N1 為密繞占六層,層間均須層隔,且使用絞線繞制.
  - 3. N2 為疏繞占一層.
  - 4. 各部份尺寸請參照外觀圖所示.

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DIA-07

REVISION

REV

DESCRIPTION

DATE

APPROVED

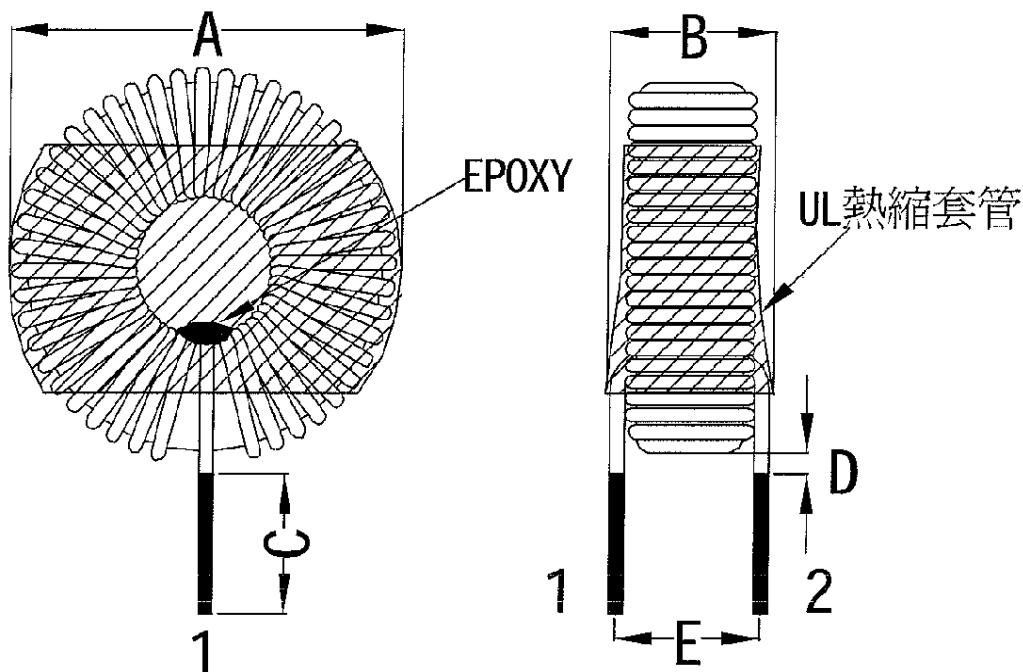
A

INITIAL RELEASE

10-15-2008


HM

1 OUTLINE DIMENSION: (UNIT: mm)



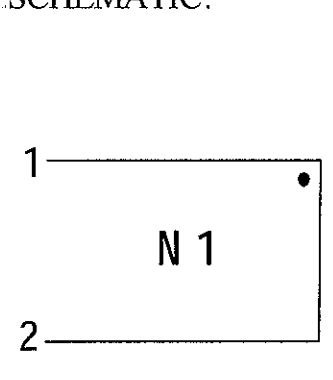
產品外部須套 UL 熱縮套管 (如圖示)

DIM	A	B	C	D	E					
	MAX	MAX	+/-0.5	MAX	+/-0.5					
SPEC	20.0	12.0	4.0	2.0	9.0					

DASH NO.	PART NO	REV.	DESCRIPTION				NOTES
TABULATION BLOCK							
REVISION	A	A					
SHEET	1	2					
INIT.BY:		DATE:		TOLERANCES:		 <b>GlobTek, Inc.</b> 186 Veterans Dr. Northvale, NJ 07647 Tel. 201-784-1000 Fax 201.784.0111 <a href="http://www.globtek.com">www.globtek.com</a>	
DRAWN:		DATE:		DECIMALS ANGULAR .XX +/- 0.1 +/- 1° .XXX +/- .005			
APRVD BY:		DATE:		MILLIMETERS ANGULAR .XX +/- 0.3 +/- 1° .XXX +/- .013		DWG TITLE: (60 CHAR. MAX)	
				FSCN No.:	SIZE A	MODEL NO: GT-41069P CHOKE COIL	
				SCALE:		PART NO: RC000134	
						REV. A	
						SHEET 1 OF 1	

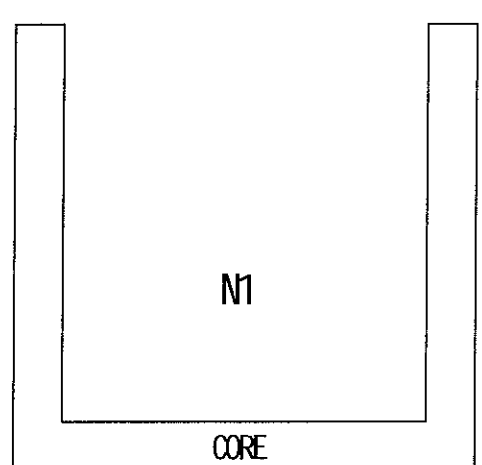
SPECIFICATION

2.SCHEMATIC:



• START

3.WINDING SEQUENCE:



4.WINDING TABLE:

Winding No (組別)	Margin Tape (檔牆膠帶)	PIN (腳位)	Wire&Wire Copper (線徑 X 股數)	Truns (圈數)	Winding Tape (繞線方式)	Tape Layer (膠帶層次)	Tube (套管)
N 1	0	1 ~ 2	0.60 ϕ x 1P	80 TS	密 繞	0	0

NOTE:

1. 圈數以內圈計算

2. 繞線須平整美觀,銅線漆包膜不可破損或脫落

3. 進出線須點膠固定

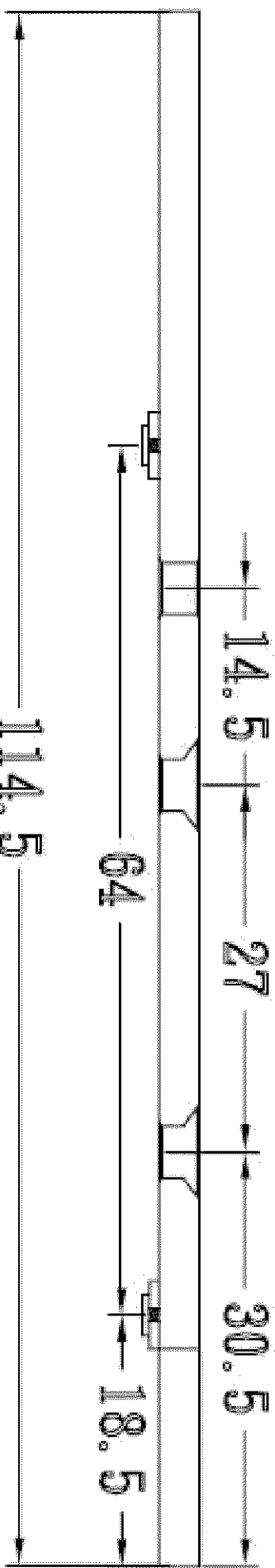
4. 產品不須含浸

5. 各部分尺寸請參照外觀圖所示

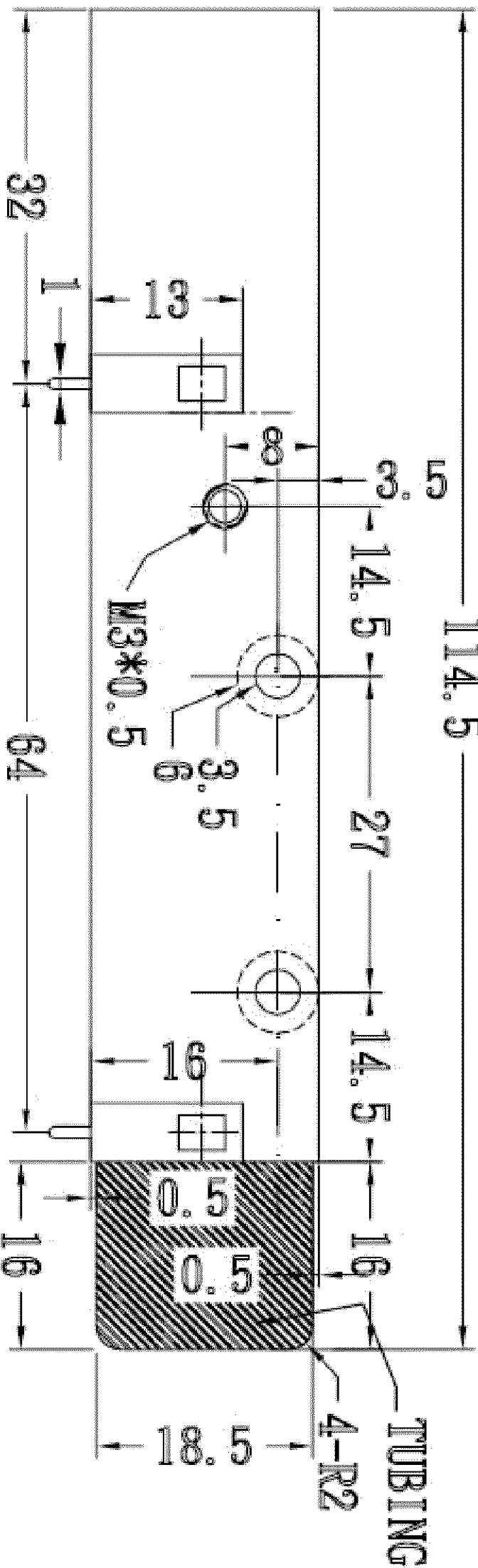
DESCRIPTION	CHOKE COIL	Customer P/N	RC00134	DATE	2008/03/27
APPROVED	張志鋒	CHECKED	許秀連	REPORTED	劉 華



A B C D E F G H



变更内容		日期
A		
A		
A		

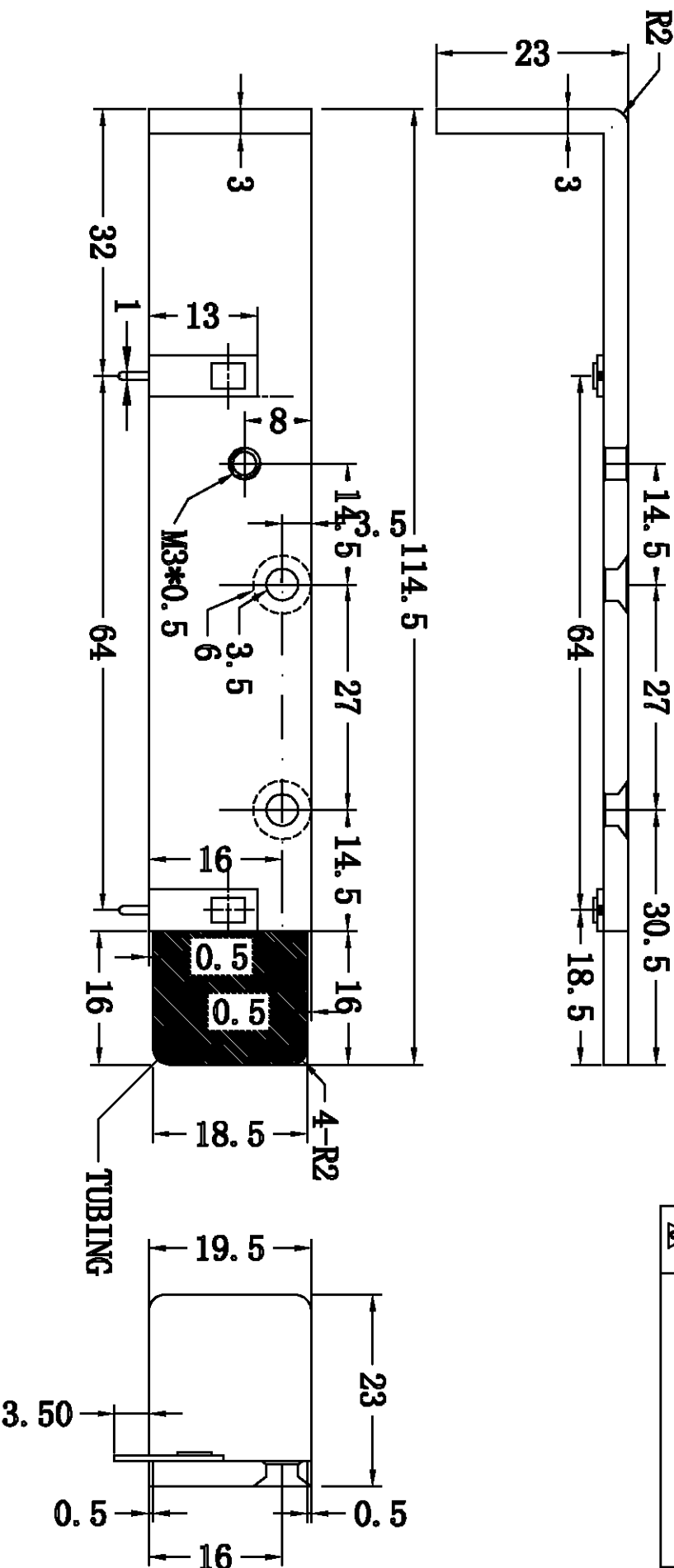


技术要求

- 1.材料:\铝材:3.0mm,PIN厚度0.7mm.
- 2.未注尺寸公差均为±0.1mm.
- 3.表面须平整,光洁,不得有划伤和毛边.
- 4.所有攻牙&通孔均须双面倒角。

NAME	散热片 (HS1)		MAT'L	T=3.0mm	SIZE	A4
MODEL	3A902DX		REV.	1.4	DIM	mm
PART NO.			DWG NO.	H02-901807-001		
APPROVED	CHECKED	DRAWN	SHEET 1 OF 1	DATE	08-04-16	
		RuWu_xiao	FIRST ANGLE PROJECTION:			

变更内容		日期
△		
△		
△		

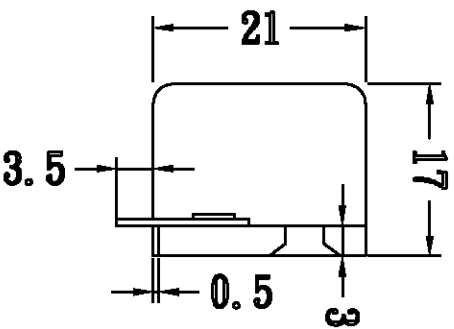
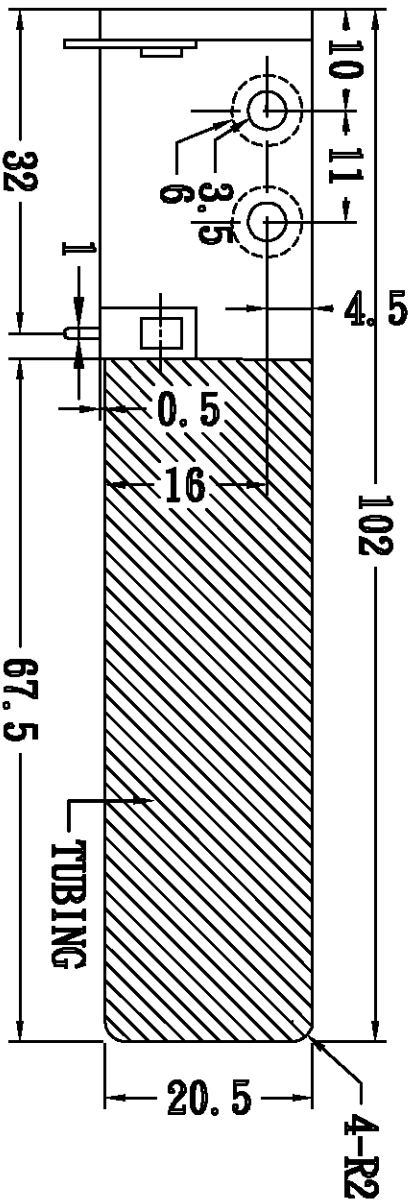
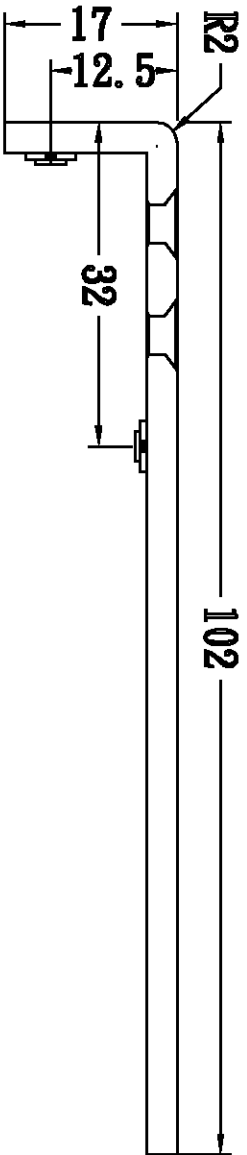


### 技术要求

- 1.材料: 鋁材: 3.0mm, PIN厚度 0.7mm.
- 2.未注尺寸公差均为±0.1mm.
- 3.表面須平整, 光潔, 不得有划伤和毛边.
- 4.所有攻牙&通孔均須雙面倒角.


NAME		散 热 片 (HS1)		MAT'L		T=3.0mm		SIZE		A4	
MODEL		3A902DX		REV.		1.4		DIM		mm	
PART NO.				DWG NO.		H02-901807-001					
APPROVED		CHECKED		DRAWN		SHEET 1 OF 1		DATE		08-04-16	
				Ruwu_xiao		FIRST ANGLE		PROJECTION:			

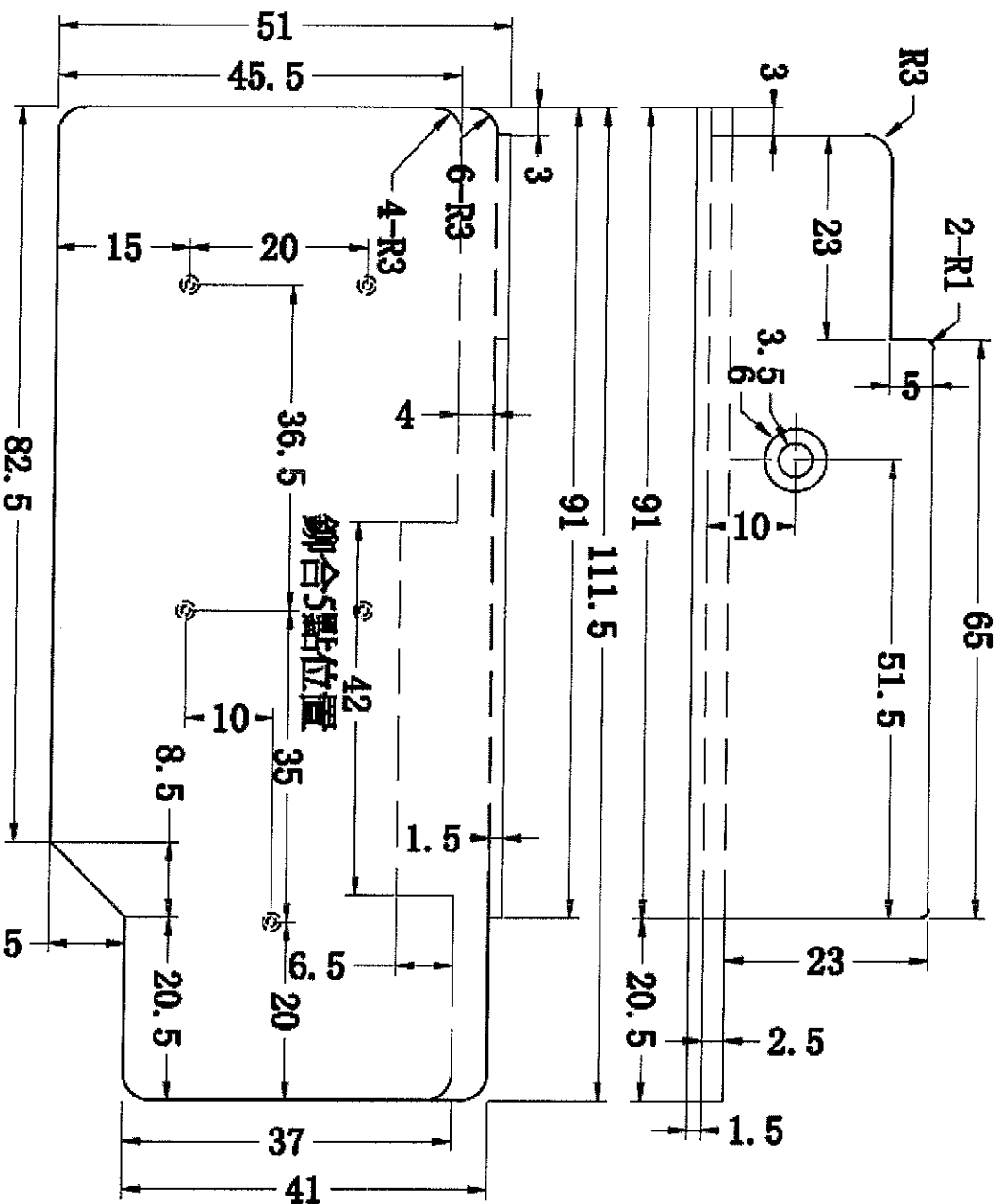
製圖內容		日期
△		
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△		



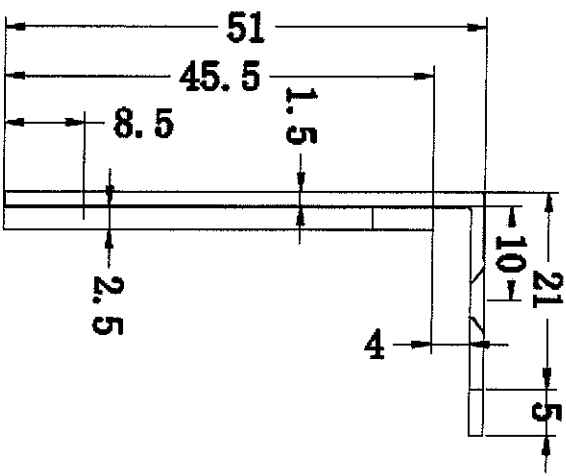
### 技术要求

- 1.材料:鋁材:3.0mm,PIN厚度0.7mm.
- 2.未注尺寸公差均為±0.1mm.
- 3.表面須平整,光潔,不得有划傷和毛邊.
- 4.所有攻牙&通孔均須雙面倒角。

NAME		散热片(HS2)		MAT'L		T=3.0mm		SIZE		A4	
MODEL		3A902DA		REV.		1.3		DIM		mm	
PART NO.				DWG NO.		H02-901807-002					
APPROVED		CHECKED		DRAWN		SHEET 1 OF 1		DATE		000005	
				Ruwu_xiao		FIRST ANGLE PROJECTION:					



審核	審核	審核	審核	審核	審核
審核	審核	審核	審核	審核	審核
審核	審核	審核	審核	審核	審核
審核	審核	審核	審核	審核	審核
審核	審核	審核	審核	審核	審核



- 技术要求
- 1.材料:鋁材:1.5&2.5mm.
  - 2.未注尺寸公差均為±0.1mm.
  - 3.表面須平整,光潔,不得有划傷和毛邊.

NAME	(蓋板)	MAT'L	T=1.5&2.5mm	SIZE	A4
MODEL	3A902DX	REV.	1.1	DIM	mm
PART NO.		DWG NO.	H02-901807-010		
APPROVED	CHECKED	DRAWN	SHEET 1 OF 1	DATE	00-00-00
Xingqiao_chen	Yucal_in	Rumu_xiao	FIRST ANGLE PROJECTION:		

A

B

C

D

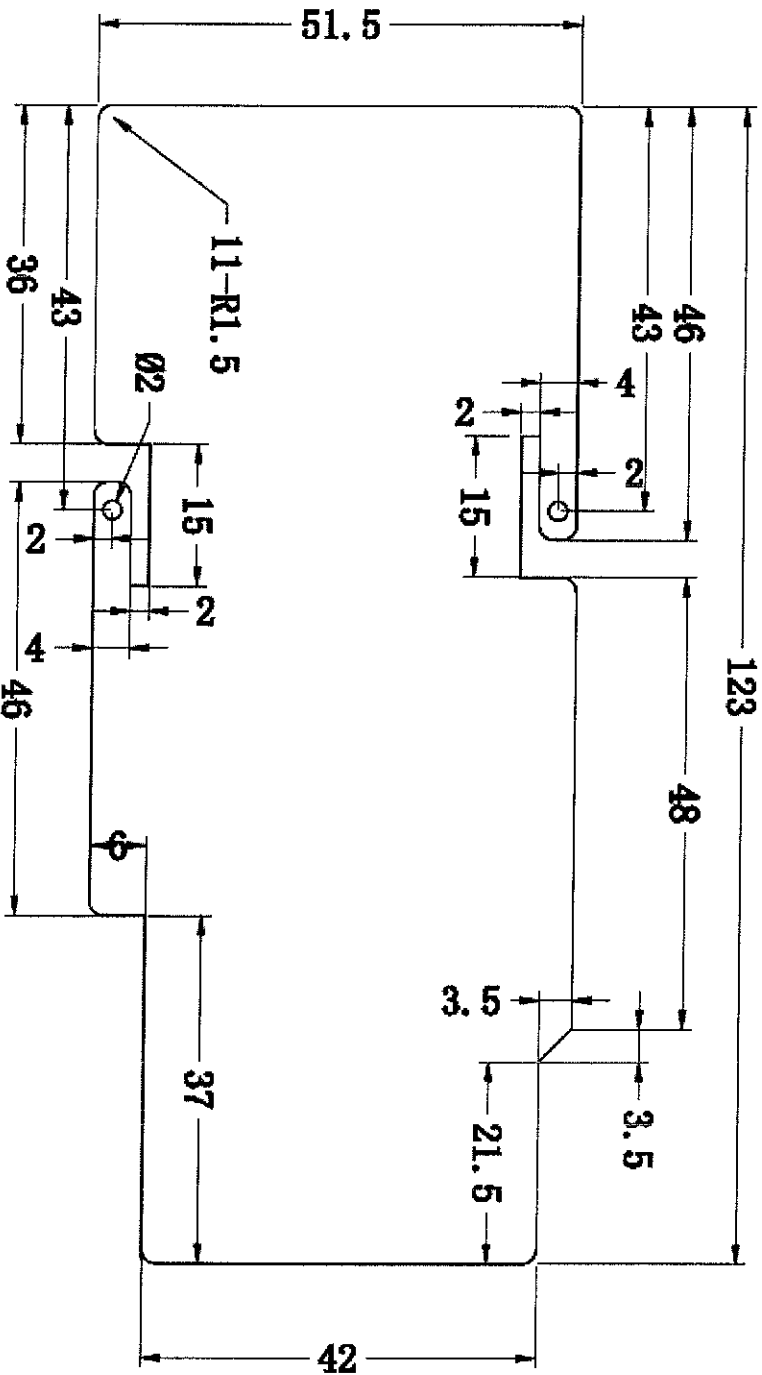
E

F

G

H

		背	5 膜
△			
△			
△			



### 技术要求

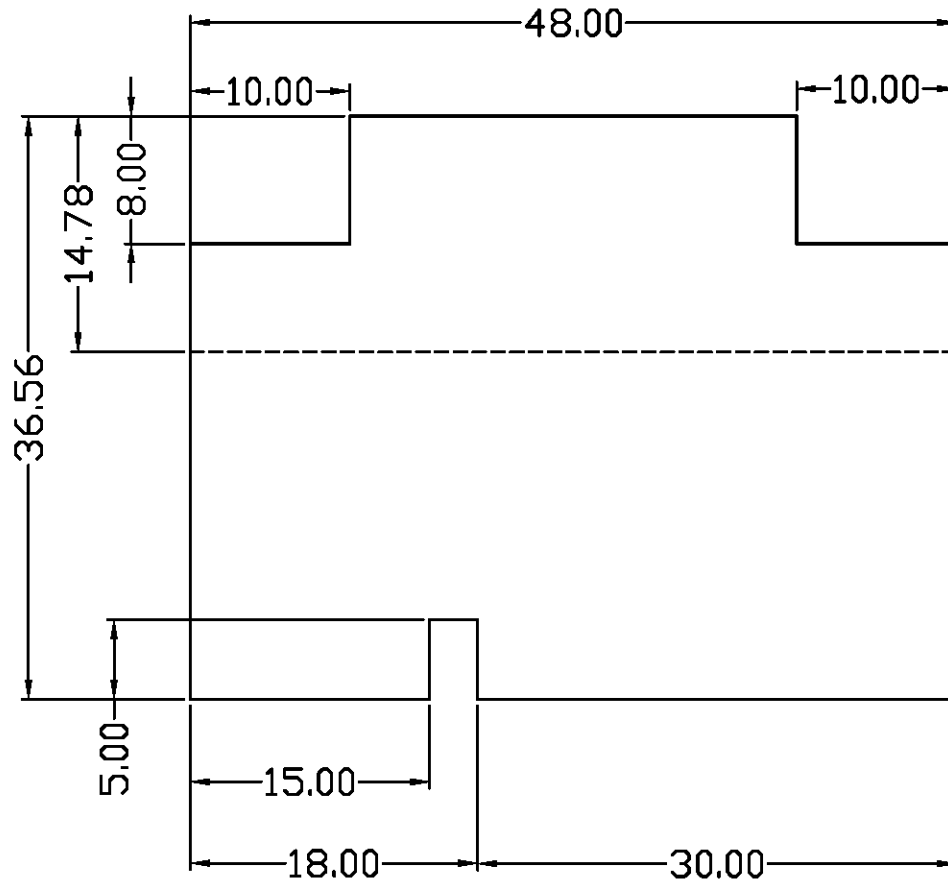
- 1.材料:電解板:0.25mm.
- 2.未注尺寸公差均为±0.1mm.
- 3.表面須平整,光潔,不得有划伤和毛边.

NAME	底板	MAT'L	T=0.25mm	SIZE	A4
MODEL	3A902DA	REV.	1.3	DIM	mm
PART NO.		DWG NO.	E01-901807-001		
APPROVED	CHECKED	DRAWN	RUWU_xiao	SHEET 1 OF 1	DATE 04-08-06
				FIRST ANGLE PROJECTION:	

**\*SPECIFICATION\***

CUSTOMER:	英格爾	APPROVED BY
CUS. PART NO. :		
COILS PART NO. :	PC770FL36.56-48H	
DATE:	2008.04.10	

尺寸與圖示：(單位:MM)

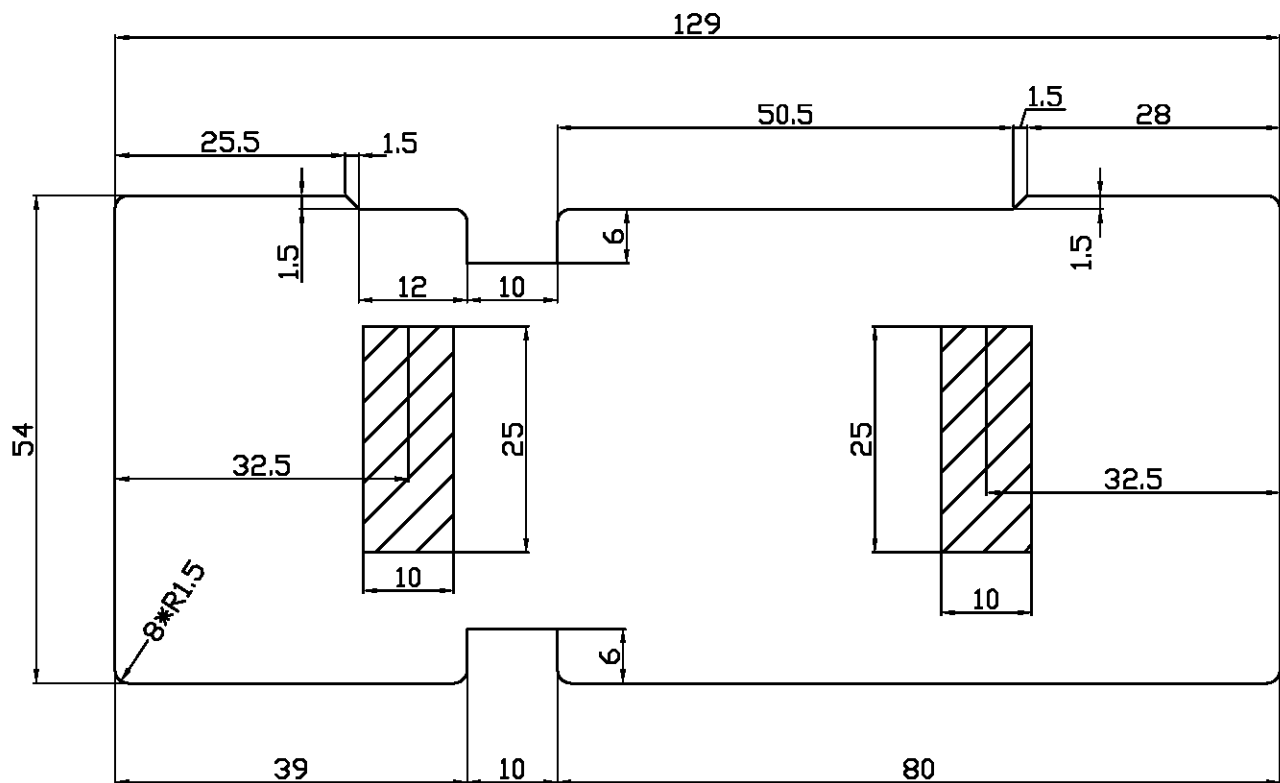
注：虛線為折痕，沿虛線向下折彎 $90^{\circ} \pm 30^{\circ}$ ，成型後光面在內

技術要求:		公差(TOLERANCE)			
		公差尺寸	粗略公差	一般公差	精細公差
材 質:PC770F		≤30mm	±0.5mm	±0.3mm	±0.15mm
厚度(THICKNESS):0.43±0.04		>30mm≤100mm	±1.0mm	±0.5mm	±0.3mm
耐壓(HI-POT):3000VAC 10mA 1SEC		>100mm≤200mm	±1.5mm	±0.8mm	±0.5mm
顏色(COLOR): 黑色		200mm以上	±2.0mm	±1.0mm	±0.8mm
		φ孔徑<30mm	±0.5mm	±0.3mm	±0.2mm
核 準 (品保)	核 準 (工程)	審 查	制 作	制作日期	
82+13				2008.04.10	

**\*SPECIFICATION\***

CUSTOMER:	英格爾	APPROVED BY
CUS. PART NO. :		
COILS PART NO. :	F17LG54-129	
DATE:	2008.03.07	

尺寸與圖示：(單位:mm)



注：陰影部位底面背SONY T4000雙面膠

技術要求:

材 質:FORMEX GK-17

厚度(THICKNESS): $0.43^{+0.08}_{-0.03}$ (不含膠厚)

耐壓(HI-POT):3000VAC 10mA 1SEC

顏色(COLOR):白色

公差(TOLERANCE)

公差尺寸	粗略公差	一般公差	精細公差
≤30mm	±0.5mm	±0.3mm	±0.15mm
>30mm≤100mm	±1.0mm	±0.5mm	±0.3mm
>100mm≤200mm	±1.5mm	±0.8mm	±0.5mm
200mm以上	±2.0mm	±1.0mm	±0.8mm
φ孔徑<30mm	±0.5mm	±0.3mm	±0.2mm

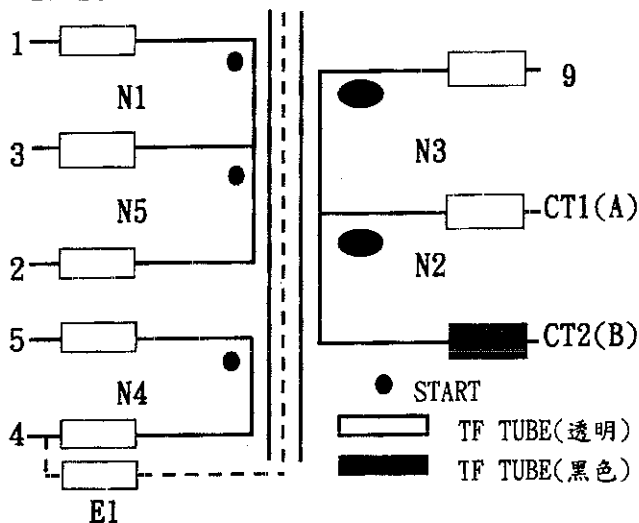
核 準 (品保)	核 準 (工程)	審 查	制 作	制作日期
VE+18				2008.03.07



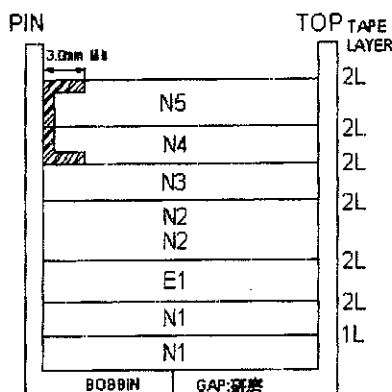


# SPECIFICATION

## 2. SCHEMATIC:



## 3. WINDING SEQUENCE:



## 4. WINDING TABLE

Winding No (組別)	Margin Tape (擋牆膠帶)	PIN (腳位)	Wire&Wire Copper (線徑X股數)	Turns (圈數)	Winding Tape (繞線方式)	Tape Layer (膠 帶層次)	Tube (套管)
N1	0	1~3	(0.1Φx25P) X1P 絞線	28Ts	密繞	2L	20*14/20*14
E1	0	~4~	0.025*7mm	0.9Ts	背膠	2L	0/26*10/0
N2	0	CT1(A)~ CT2(B)	(三層絕緣 線)	5Ts	密繞	2L	12*22(透明) /12*17(黑色)
N3	0	9~CT1(A)	0.3ΦX1P (三層絕緣 線)	5Ts	疏繞	2L	24*13 /24*22(透明)
N4	0	5~4	0.25ΦX2P	6Ts	疏繞	2L	24*13/24*13
N5	0	3~2	(0.1Φx25P) X1P 絞線	12Ts	密繞	2L	20*14/20*14

### NOTE:

- 1.) N1為密繞佔兩層,層間需層隔,且使用絞線繞制。
- 2.) N2為密繞佔兩層,層間不需層隔從,且使用三層絕緣線繞制,須先脫皮再鍍錫。
- 3.) N3為疏繞佔一層,且使用三層絕緣線繞制,須先脫皮再鍍錫。
- 4.) N4為疏繞佔一層。
- 5.) CT1(A)&CT2(B) 為飛線,CT1(A)穿透明TF TUBE從PIN6側進線,CT2(B)穿黑色TF TUBE從PIN8處出線。鍍錫部份須絞線作業。
- 6.) N5為密繞佔一層,且使用絞線繞制。
- 7.) E1為內銅箔(背膠),焊點位置於中間,接引線0.35ΦX1P。

DESCRIPTION	TRANSFORMER	Customer P/N	XF00500	DATE	2008/6/30
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# SPECIFICATION

## 5. ELECTRICAL CHARACTERISTIC: (電器特性)

TEST CONDITION : TEMPERATURE AT 25°C @1KHz, 0.3V

TEST POINT	INDUCTANCE(L)	LK	DCR	TEST INSTRUMENT
1-2	520.0uH±20uH	25.0uH Max (short other pin)	0.3Ω MAX	WK---4235
CT1(A)-CT2(B)	8.0 REF		6.0mΩ MAX	WK---4235
9-CT1(A)	9.0 REF		113.0mΩ MAX	WK---4235
5-4	12.0 REF		94.0mΩ MAX	WK---4235

### 1) HI-POT TEST:(WK-7620)

PRI. TO SEC. -----AC 3.75KV/(50/60Hz)/5mA/60sec.

PIN1, 2. TO CRRE. -----AC 1.5KV/(50/60Hz)/5mA/60sec.

SEC. TO CRRE. -----AC 3.0KV/(50/60Hz)/5mA/60sec.

### 2) A.R.C TEST:(WK-7620)

PRI. TO SEC. -----AC 3.75KV/(50/60Hz)/12mA/1sec.

### 3) INSULATION TEST:(DC 500V)

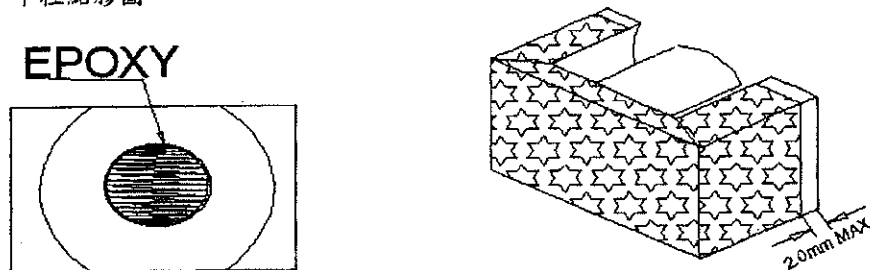
BETWEEN PRI. TO SEC. & PRI. TO CORE AND SEC. TO CORE THE  
RESISTANCE MORE 100M ohm.

### 4) TERMINAL STRENGTH:

1.0 Kg on terminals for 30seconds test the breakdown.

PIN端CORE加工圖:用3M 1350T-1\*1L的TAPE加工

CORE 中柱點膠圖

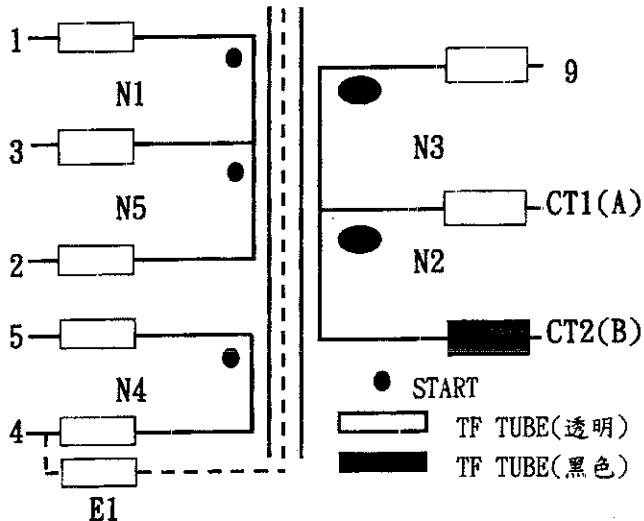


DESCRIPTION	TRANSFORMER	Customer P/N	XF00500	DATE	2008/6/30
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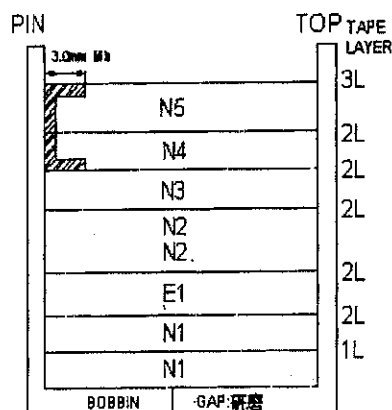


# SPECIFICATION

## 2. SCHEMATIC:



## 3. WINDING SEQUENCE:



## 4. WINDING TABLE

Winding No (組別)	Margin Tape (擋牆膠帶)	PIN (腳位)	Wire&Wire Copper (線徑X股數)	Turns (圈數)	Winding Tape (繞線方式)	Tape Layer (膠 帶層次)	Tube (套管)
N1	0	1-3	(0.1Φx25P) X1P 絞線	28Ts	密繞	2L	20*14/20*14
E1	0	~4~	0.025*7mm	0.9Ts	背膠	2L	0/26*10/0
N2	0	CT1(A)~ CT2(B)	(三層絕緣 線)	7Ts	密繞	2L	13*22(透明) /13*17(黑色)
N3	0	9-CT1(A)	0.3ΦX1P (三層絕緣 線)	4Ts	疏繞	2L	24*13 /24*22(透明)
N4	0	5-4	0.25ΦX2P	6Ts	疏繞	2L	24*13/24*13
N5	0	3-2	(0.1Φx25P) X1P 絞線	12Ts	密繞	3L	20*14/20*14

### NOTE:

- 1.) N1為密繞佔兩層,層間需層隔,且使用絞線繞制.產品不須加MARGIN TAPE,各進出線均須加TUBE.
- 2.) N2為密繞佔兩層,層間不需層隔從,且使用三層絕緣線繞制,須先脫皮再鍍錫.
- 3.) N3為疏繞佔一層,且使用三層絕緣線繞制,須先脫皮再鍍錫.
- 4.) N4為疏繞佔一層.
- 5.) CT1(A)&CT2(B)為飛線,CT1(A)穿透明TF TUBE從PIN6側進線,CT2(B)穿黑色TF TUBE從PIN8處出線.鍍錫部份須絞線作業.
- 6.) N5為密繞佔一層,且使用絞線繞制.
- 7.) E1為內銅箔(背膠),焊點位置於中間,接引線0.35ΦX1P.

DESCRIPTION	TRANSFORMER	Customer P/N	XF00501	DATE	2008/6/30
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# SPECIFICATION

## 5. ELECTRICAL CHARACTERISTIC: (電器特性)

TEST CONDITION : TEMPERATURE AT 25°C @1KHz, 0.3V

TEST POINT	INDUCTANCE(L)	LK	DCR	TEST INSTRUMENT
1-2	520.0uH±20uH	25.0uH Max (short other pin)	0.3Ω MAX	WK---4235
CT1(A)-CT2(B)	17.0 REF		11.0mΩMAX	WK---4235
9-CT1(A)	9.0 REF		110.0mΩMAX	WK---4235
5-4	13.0 REF		94.0mΩMAX	WK---4235

### 1) HI-POT TEST:(WK-7620)

PRI. TO SEC. -----AC 3.75KV/(50/60Hz)/5mA/60sec.

PIN1, 2. TO CRRE -----AC 1.5KV/(50/60Hz)/5mA/60sec.

SEC. TO CRRE -----AC 3.0KV/(50/60Hz)/5mA/60sec.

### 2) A.R.C TEST:(WK-7620)

PRI. TO SEC. -----AC 3.75KV/(50/60Hz)/12mA/1sec.

### 3) INSULATION TEST:(DC 500V)

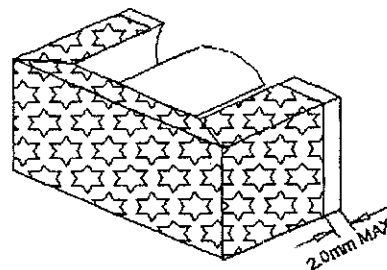
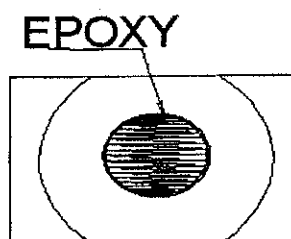
BETWEEN PRI. TO SEC. & PRI TO CORE AND SEC. TO CORE THE  
RESISTANCE MORE 100M ohm.

### 4) TERMINAL STRENGTH:

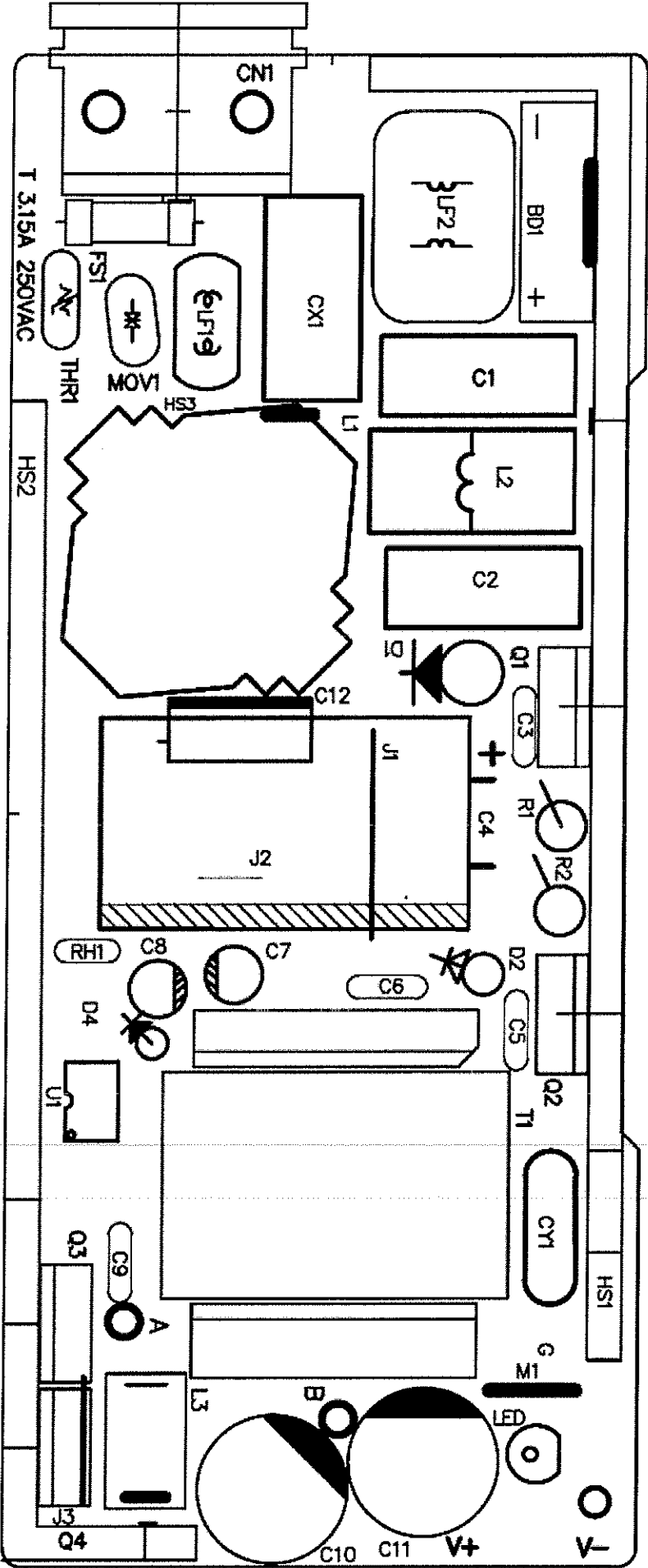
1.0 Kg on terminals for 30seconds test the breakdown.

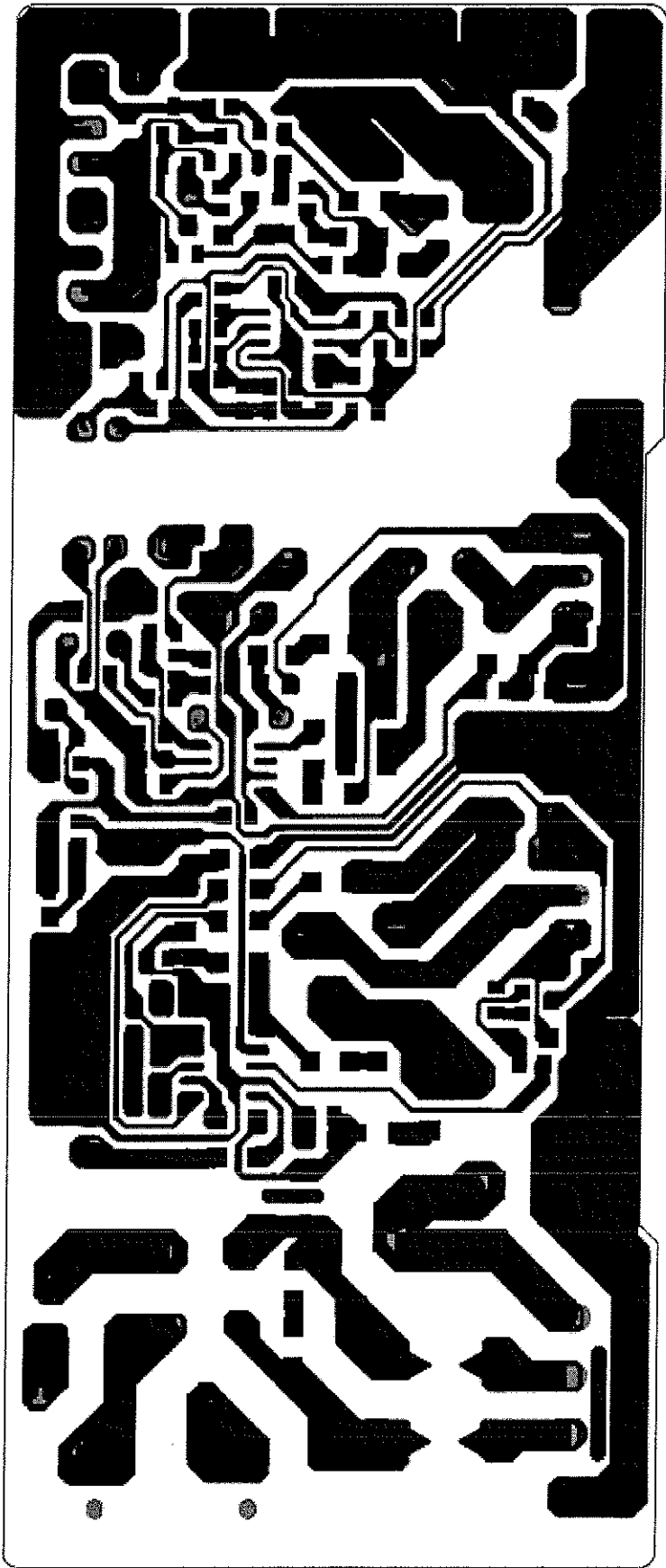
PIN端CORE加工圖:用3M 1350T-1\*1L的TAPE加工

CORE 中柱點膠圖



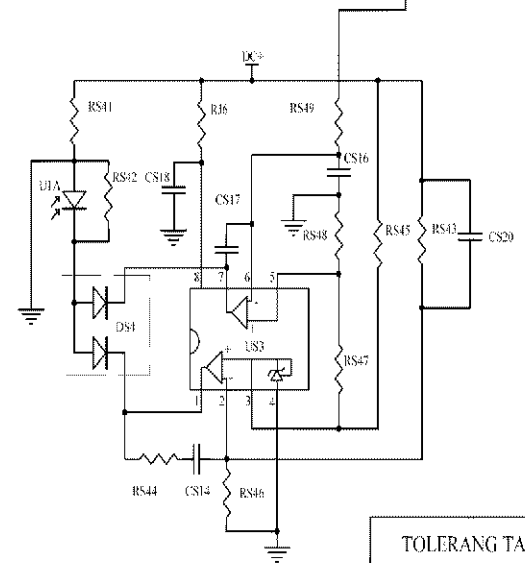
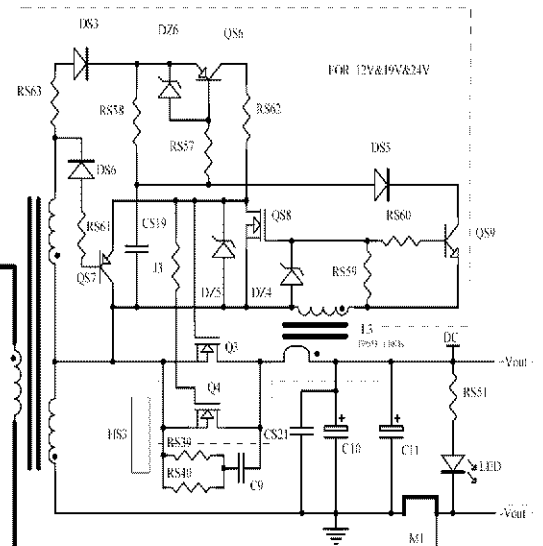
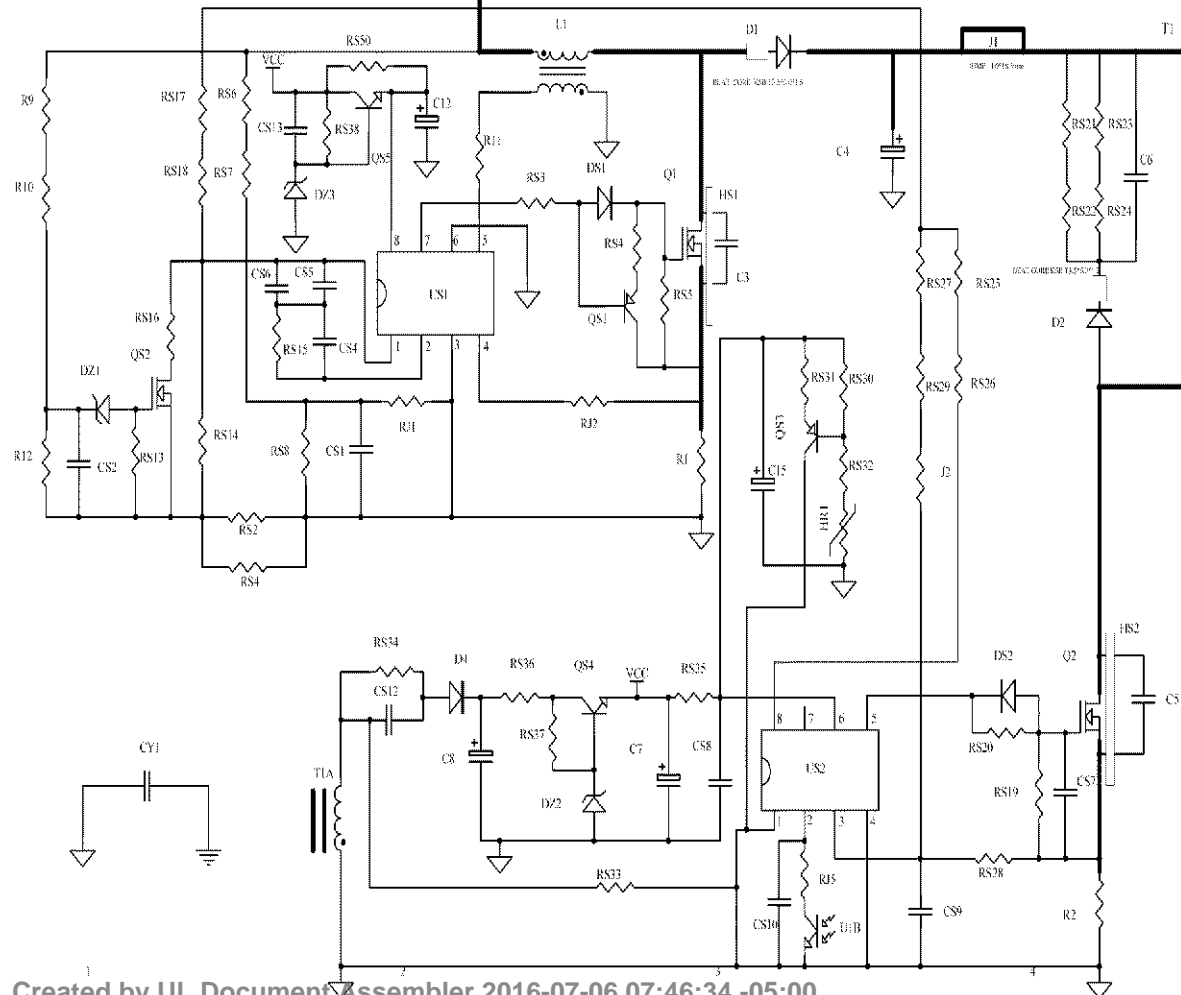
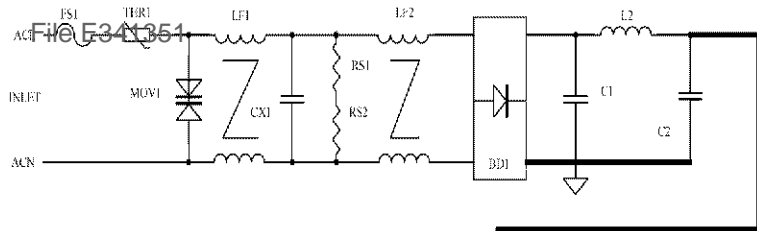
DESCRIPTION	TRANSFORMER	Customer P/N	XF00501	DATE	2008/6/30
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TOLERANG TABLE			
	6		

**90W 系列差异表(GLOBTEK)**

Model	Rated voltage	Rated current	RS16	RS20	RS39,40	RS34	RS33	RS43	RS46
12V products	12V	7.5A	43KΩ	180Ω	47Ω	4.7Ω	47KΩ	18KΩ	4.64 KΩ
15.9V products	15.9V	5.66A	47KΩ	180Ω	47Ω	10Ω	82KΩ	18KΩ	3.3KΩ
16V products	16V	5.63A	47KΩ	180Ω	47Ω	2Ω	56KΩ	16.5KΩ	3KΩ
18.9V products	18.9V	4.76A	43KΩ	180Ω	47Ω	10Ω	68KΩ	20KΩ	3KΩ
19V products	19V	4.74A	43KΩ	180Ω	47Ω	10Ω	68KΩ	20KΩ	3KΩ
24V products	24V	3.75A	43KΩ	100Ω	100Ω	22Ω	75KΩ	38.3KΩ	4.42KΩ
Model No	Rated voltage	Rated current	RS48	RS51	RS62	RS63	C10,11	Q3	Q4
12V products	12V	7.5A	910Ω	10KΩ	10Ω	15Ω	1500uF/25V	98A/75V	98A/75V
15.9V products	15.9V	5.66A	680Ω	10KΩ	4.7Ω	47Ω	1500uF/25V	open	98A/75V
16V products	16V	5.63A	680Ω	10KΩ	10Ω	15Ω	1500uF/25V	open	60A/100V
18.9V products	18.9V	4.76A	560Ω	10KΩ	10Ω	15Ω	1500uF/25V	open	60A/100V
19V products	19V	4.74A	560Ω	10KΩ	10Ω	15Ω	1500uF/25V	open	60A/100V
24V products	24V	3.75A	510Ω	20KΩ	10Ω	15Ω	1000uF/35V	open	60A/100V
Model No	Rated voltage	Rated current	T1						
12V products	12V	7.5A	XF00500						
15.9V products	15.9V	5.66A	XF00500						
16V products	16V	5.625A	XF00501						
18.9V products	18.9V	4.76A	XF00501						
19V products	19V	4.74A	XF00501						
24V products	24V	3.75A	XF00501						

Issue Date: 2011-12-14

Page 1 of 2

Report Reference #

E341351-A30-UL

Revision Date: 2016-06-21

Test Record

### **Test Record No. 1**

Tests on all models are not required due to transferring file from Applicant Globtek (Suzhou) Co Ltd., File E336418, Vol. X6, E336418-A29.

**Test Record No. 2**

The manufacturer submitted representative production samples of Switching Power Adapter, Models GT-41069P9012-T3 and GT41069P9024-T3.

Tests performed on Models GT-41069P9012-T3 and GT41069P9024-T3 were considered as the representative of Model GT-41069PWWV-X.X-T3YZ.

Only limited tests were deemed necessary due to only employ with the following revision:

- Upgraded to UL60950-1(2nd+AM1+AM2)
- Updated circuit schematic
- Withdrawn UL 60065 Evaluation

See Test Record no. 1 for details.

The following tests were conducted:

Test	Testing Location/Comments
End Product Reference Page	
General Guidelines	
Power Supply Reference Page	
Capacitance Discharge (2.1.1.7)	
Limited Power Source Measurements (2.5)	

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
Datasheet	2-01	Datasheet
Attachment	2-02	CRD

Project No. 4787412187

File E341351

Page 1

Compliance

Review

Conducted by: Connie Tse/Suki Kwong

Connie Tse/Suki Kwong

Date 2016-06-14

Printed Name

Signature

Where a clause specifies a dimension, the measurement instrument(s) used to measure the dimension shall be identified (this should correlate to the measurement instrument list at the beginning of the package). The applicable dimension may be recorded in the comment column, if necessary as determined by the Level 2 Staff or Level 3 Reviewer.

## CONSTRUCTION COMPLIANCE REVIEW RECORD

## Sample Identification -

Sample Card No.	Date Received	Sample No.	Manufacturer, Product Identification and Ratings
249799	2016-06-08	1	GLOBTEK (HONG KONG) LTD, Switching Power Adapter, Model GT-41069P9012-T3, Input: 100-240Vac, 1.5A, 50-60Hz, Output: 12Vdc, 6.5A

## Measurement Instrument Information -

Inst. ID No.	Instrument Type	Function/Range	Last Cal. Date	Next Cal. Date
-	-	-	-	-

[X] UL test equipment information is recorded on Meter Use in Aurora (Apply to in-house test only)

The following additional information is required when using client's or rented equipment, or when a UL ID Number for an instrument number is not used. The Inst. ID No. below corresponds to the Inst. ID No. above.

Inst. ID No.	Make/Model/Serial Number/Asset No.

**Remark: No construction review required due to only employ with the following revision:**

- Upgraded to UL60950-1(2nd+AM1+AM2)
- Updated circuit schematic
- Withdrawn UL 60065 Evaluation

ULS-02377-AAAG-ConstructionReview-2001

Form Page 1

Form Issued: 2003-01-02

Form Revised: 2014-05-08

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