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UL TEST REPORT AND PROCEDURE

Standard: 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)

Certification Type: Listing

CCN: QQGQ, QQGQ7 (Power Supplies for Information Technology

Equipment Including Electrical Business Equipment)

Product: ITE POWER SUPPLY

Model: GT-46181-WWVV-X.X-T2, GT-41062-WWVV-X.X-T2, GT-41082-

WWVV-X.X-T2,

WW denotes the rated output wattage, with a maximum value of 18. VV denotes the standard rated output voltage designation, with a

value of 05, 09, 12, 15.

-X.X is optional deviation, subtracted from standard output voltage,

which is blank.

Rating: INPUT: 100-240Vac, 50-60Hz, 0.5A max

OUTPUT: See Miscellaneous 7-01 for details.

Applicant Name and Address: 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.

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

Prepared by: Nat Liu/ Chen Amos Reviewed by: Kyle Lin

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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.
 - 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 plastic enclosure.

Model Differences

- All models are identical except for model designation.
- See Miscellaneous 7-01 for details.

Technical Considerations

- Equipment mobility : transportable
- 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 II (double insulated)
- Considered current rating of protective device as part of the building installation (A): 20
- Pollution degree (PD): PD2
- IP protection class: IP X0
- Altitude of operation (m): 2000 m
- Altitude of test laboratory (m): less than 2000 meters
- Mass of equipment (kg): 0.133
- The product was submitted and evaluated for use at the maximum ambient temperature (Tma) permitted by the manufacturer's specification of: 40 degree 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

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- The equipment disconnect device is considered to be: Appliance inlet
- The following accessible locations (with circuit/schematic designation) are within a limited current circuit: Bridging Capacitors (CY1 and CY2) Secondary Part.
- The following circuit locations (with circuit/schematic designation) were investigated as a limited power source (LPS): Output ports.
- The following are available from the Applicant upon request: Installation (Safety) Instructions / Manual

Additional Information N/A Markings and instructions Clause Title Marking or Instruction Details Power rating - Ratings Ratings (voltage, frequency/dc, current) Power rating -Listee's or Recognized company's name, Trade Name, Trademark or File Company identification Number Power rating -Model Number Model Power rating -Symbol for Class II construction Class II symbol

Special Instructions to UL Representative

fuseholder.

Fuses - Rating

Inspect the transformer (T1) listed in BD1.1 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 BD1.1 be conducted at the component manufacturer.

Rated current and voltage and type located on or adjacent to fuse or

(60417-2-IEC-5172)

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Production I	ine Testing Requ	iromonte				
	•		Defer to Consula Inche	ation in	-44: F	and AC for
further inform		Constructions	- Refer to Generic Inspe	ection in	<u>structions, F</u>	art AC for
		Removable		V		Test Time,
Model	Component	Parts	Test probe location	rms	V dc	S
All Models	T1		Primary to Secondary	300 0	4242	1
Earthing Cor	ntinuity Test Exer	nptions - This t	est is not required for th	e follow	ing models:	
All models						
Electric Stre	ngth Test Exemp	tions - This test	t is not required for the f	ollowing	models:	
			ns - The following solid- uitry during the performa			ay be
N/A						
Sample and	Test Specifics fo	r Follow-Up Tes	sts at UL			
Model	Component	Material	Test	S	ample(s)	Test Specifics
N/A	·		·			·

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1.5.1	TABLE: list of critica	I components				Pass
Object/part or Description	Manufacturer/ trademark	type/model	technical data	Product Category CCN(s)	Required Marks of Conformity	Supplement ID
01. Enclosure	SABIC INNOVATIVE PLASTICS	SE1X(GG)(f1)	Two pieces construction, secured together by ultrasonic welding, rated V-1 or better, 130 degree C min. Minimum 2.0 mm thickness. See Enclosure/Diagram ID 4-01 for dimensions	QMFZ2	UL	
02. Appliance Inlet	TECX-UNIONS TECHNOLOGY CORP	SO-222	Rated 250 V, 2.5 A, 105 degree C min. (C8 type)	AXUT2	UL	
02a. Appliance Inlet (alternate)	SUN FAIR ELECTRIC WIRE & CABLE (HK) CO LTD	S-01	Rated 250 V, 2.5 A, 75 degree C min. (C8 type)	AXUT2	UL	
02b. Appliance Inlet (alternate)	ZHEJIANG LECI ELECTRONICS CO LTD	DB-8	Rated 250 V, 2.5 A, 75 degree C min. (C8 type)	AXUT2	UL	
02c. Appliance Inlet (alternate)	ZHE JIANG BEI ER JIA ELECTRONIC CO LTD	ST-A03-005	Rated 250 V, 2.5 A, 75 degree C min. (C8 type)	AXUT2	UL	
03. Fuse (F1)	Various	Various	Listed, T1AL 250Vac	JDYX	UL	
03a. Fuse (F1) (Alternate)	Conquer Electronics Co Ltd	MST	Rated T1AL, 250Vac.	JDYX2	UL	
03b. Fuse (F1) (Alternate)	Ever Island Electric Co Ltd & Walter Electric	2010	Rated T1AL, 250Vac.	JDYX2	UL	
03c. Fuse (F1) (Alternate)	COOPER BUSSMANN LLC	SS-5	Rated T1AL, 250Vac.	JDYX2	UL	
03d. Fuse (F1) (Alternate)	Bel Fuse Inc	RST	Rated T1AL, 250Vac.	JDYX2	UL	
03e. Fuse (F1) (Alternate)	DONGGUAN BETTER ELECTRONIC TECHNOLOGY CO	932	Rated T1AL, 250Vac.	JDYX2	UL	

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	LTD					
04. X-Capacitor (CX1)	Cheng Tung Industrial Co Ltd	CTX	Rated max 0.22 uF, min 250 V, X1 or X2 type, 110 degree C. (Compliance with IEC 60384- 14)	FOWX2	UL	
04a. X-Capacitor (CX1) (Alternate)	Tenta Electric Industrial Co Ltd	MEX	Rated max 0.22uF, min 250 V, X1 or X2 type, 100 degree C. (Compliance with IEC 60384- 14)	FOWX2	UL	
04b. X-Capacitor (CX1) (Alternate)	Ultra Tech Xiphi Enterprise Co Ltd	HQX	Rated max 0.22 uF, min 250 V, X1 or X2 type, 100 degree C. (Compliance with IEC 60384- 14)	FOWX2	UL	
04c. X-Capacitor (CX1) (Alternate)	CARLI ELECTRONICS CO LTD	MPX	Rated max 0.22uF, min 250 V, X1 or X2 type, 100 degree C. (Compliance with IEC 60384- 14)	FOWX2	UL	
04d. X-Capacitor (CX1) (Alternate)	JOEY ELECTRONICS (DONG GUAN) CO LTD	MPX	Rated max 0.22uF, min 250 V, X1 or X2 type, 105 degree C. (Compliance with IEC 60384- 14)	FOWX2	UL	
04e. X-Capacitor (CX1) (Alternate)	XIANGTAI ELECTRONIC (SHENZHEN) CO LTD	MKP/MPX	Rated max 0.22uF, min 250 V, X1 or X2 type, 110 degree C. (Compliance with IEC 60384- 14)	FOWX2	UL	
05. Bleeder Resistors (R1, R2)			Max. 2Mohs, min. 1/4W			
06. Bridge Diode (BD1)			Rated 2A, minimum 600 V.			
07. Storage Capacitor (C1)			Rated 400 V, max. 33uF, min. 105 degree C, provided with integral pressure relief			
08. Transistor (Q1)	Various	Various	Rated 4 A, minimum 600 V.			
09. Bridge Capacitors (CY1,CY2) (optional)	Success Electronics Co Ltd	SE, SB	CY1 rated max. 2200pF, CY2 rated max. 100pF, min. 250 Vac, 125 degree C, Y1 type. (Compliance with IEC 60384-14)	FOWX2	UL	

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09a. Bridge Capacitors (CY1,CY2) (optional) (Alternate)	TDK-EPC CORPORATION	CD	CY1 rated max. 2200pF, CY2 rated max. 100pF, min. 250 Vac, 125 degree C, Y1 type. (Compliance with IEC 60384-14)	FOWX2	UL	
09b. Bridge Capacitors (CY1,CY2) (optional) (Alternate)	Walsin Technology Corp	AH	CY1 rated max. 2200pF, CY2 rated max. 100pF, min. 250 Vac, 125 degree C, Y1 type. (Compliance with IEC 60384-14)	FOWX2	UL	
09c. Bridge Capacitors (CY1,CY2) (optional) (Alternate)	Haohua Electronic Co	CT 7	CY1 rated max. 2200pF, CY2 rated max. 100pF, min. 250 Vac, 125 degree C, Y1 type. (Compliance with IEC 60384-14)	FOWX2	UL	
09e. Bridge Capacitors (CY1,CY2) (optional) (Alternate)	XIANGTAI ELECTRONIC (SHENZHEN) CO LTD	YOB YOF YOE	CY1 rated max. 2200pF, CY2 rated max. 100pF, min. 250 Vac, 125 degree C, Y1 type. (Compliance with IEC 60384-14)	FOWX2	UL	
10. Optical Isolator (PC1)	Lite-On Technology Corp	LTV-817	Isolation: 5000 Vac, minimum 100 degree C.	FPQU2	UL	
10a. Optical Isolators (PC1) (Alternate)	Everlight Electronics Co Ltd	EL817	Isolation: 5000 Vac, minimum 110 degree C.	FPQU2	UL	
10b. Optical Isolators (PC1) (Alternate)	COSMO ELECTRONICS CORP	K1010	Isolation voltage minimum 5000 Vac, minimum 115 degree C.	FPQU2	UL	
10c. Optical Isolators (PC1) (Alternate)	BRIGHT LED ELECTRONICS CORP	BPC- 817XXXXXX, BPC- 817MXXXXXX, BPC- 817SXXXXXX, where XXXXX can be any alphanumeric character or	Isolation voltage minimum 5000 Vac, minimum 100 degree C.	FPQU2	UL	

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		blank.			
10d. Optical Isolators (PC1) (Alternate)	RENESAS ELECTRONICS CORPORATION	PS2561-1	Isolation voltage minimum 5000 Vac, minimum 100 degree C.	FPQU2	UL
11. Line filter (NF1)	Various	NF00030	Open type construction. Rated 105 dehree C.		
11a Core	Various	Various	Ferrite, overall measured overall 15.6 mm by 9.8 mm by 3.0mm		
11b Coil	Various	Various	Rated minimum 105 degree C.	OBMW2	UL
12. Transformer (T1) (for GT-46181-1505-T2, GT-46181-1605-T2)		XF00941	Class B, See Enclosure / Diagram ID 4-04 for construction details.		
12. Transformer (T1) (for GT-46181-1809-T2)		XF00962	Class B, See Enclosure / Diagram ID 4-05 for construction details.		
12. Transformer (T1) (for GT-46181-1812-T2, GT-46181-1815-T2)		XF00933	Class B, See Enclosure / Diagram ID 4-06 for construction details.		
12-01. Insulation system for Transformer (T1)		130-1	Insulation system Class B (130 degree C, adapted form GREAT LEOFLON INDUSTRIAL CO LTD, Type GH-130)	OBJY2	UL
12-02. Core			EE type, Ferrite, dimension 22.8 mm by 19.2 mm by 5.7 mm		
12-03. Coil			130 degree C	OBMW2	UL
12-04. Bobbin	Chang Chun Plastics Co., Ltd.	T375J	V-0, 150degree C, Phenolic, thickness 0.8mm minimum	QMFZ2	UL
12-04a. Bobbin	SUMITOMO	PM-9820	V-0, 150degree C, Phenolic,	QMFZ2	UL
(Alternate)	BAKELITE CO LTD		thickness 0.71mm minimum		
12-05. Tubing/Sleeving	Great Holding Industrial Co. Ltd.	TFL, TFS, TFT	Rated 200 degree C, VW-1, 600V max.	YDPU2	UL
12-06. Triple Insulated Wire	Great Leoflon Industrial Co. Ltd.	TRW(B)	130 degree C	OBJT2	UL
12-07. Varnish	John C. Dolph Co.	BC-346A	Rated minimum 200 degree C.	OBOR2	UL

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12-07a. Varnish (Alternate)	Elantas Electrical Insulation Elantas Pdg Inc	V1630FS	Rated minimum 130 degree C.	OBOR2	UL	
12-08. Insulation Tape	3M Company	1350F-(#)	130 degree C.	OANZ2	UL	
12-08a. Insulation Tape (Alternate)	3M Company	1350T-1	130 degree C.	OANZ2	UL	
12-08b. Insulation Tape (Alternate)	BONDTEC PACIFIC CO LTD	370S	130 degree C.	OANZ2	UL	
13. Internal Glue Materials			Rated V-2 minimum.	QMFZ2	UL	
14. Internal Plastic Part Materials			Rated minimum V-2.	QMFZ2	UL	
15. Strain Relief Of Output Cord	Various	Various	Minimum 300 V, 80 degree C, maximum 3.05 m, marked VW-1 or FT-1. Suitable for external use. Refer to Enclosure/Diagram 4-09 for strain relief dimension details.	QMFZ2	UL	
16. PWB	Various	Various	V-0 or better, minimum 105 degree C.	ZPMV2		
17. Label	Various	Various	Minimum 70 degree C. if maximum surface temperature not specified.	PGDQ2, PGJI2	UL	
18. Heat Sink (HS1) (Consideration as Primary)	Various	Various	Aluminum, minimum 2.0 mm thick. See Enclosure for detailed dimensions.			
19. Heat Sink (HS2) (Consideration as Secondary)	Various	Various	Aluminum, minimum 1.0 mm thick. See Enclosure for detailed dimensions.			
20. Current sense resistor (R10) (for GT-46181-1605-T2)			1.1 ohm, 1W.			
20. Current sense resistor (R10) (for GT-46181-1505-T2)			1.2 ohm, 1W.			

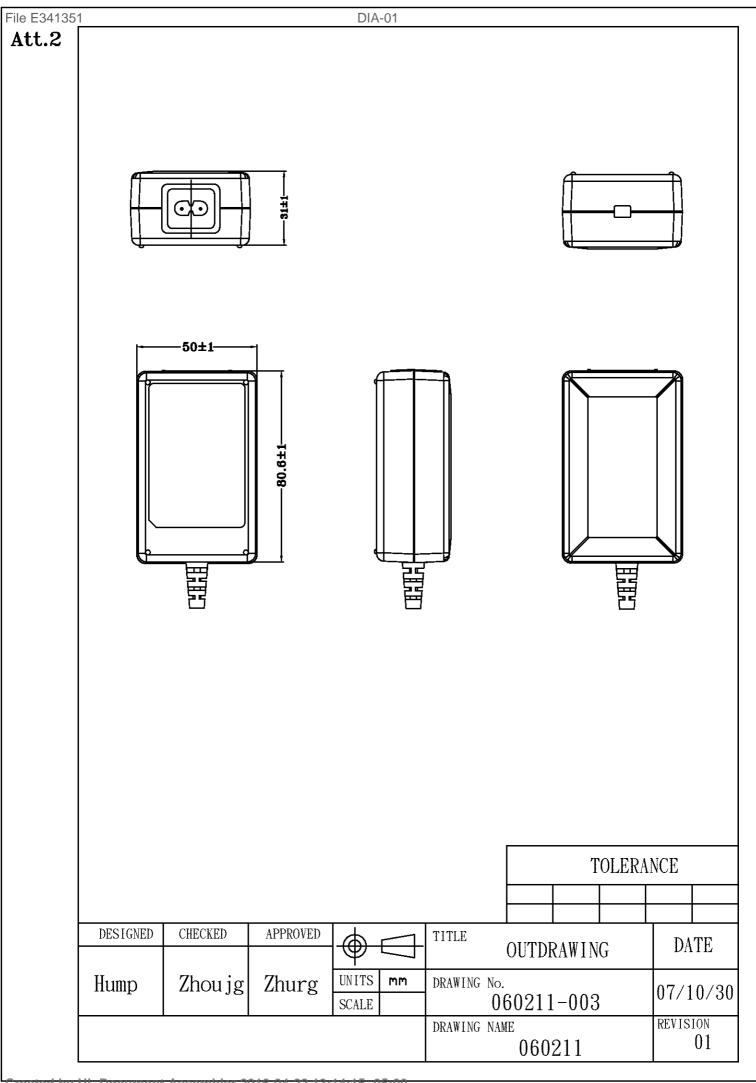
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20. Current sense			1.0 ohm, 1W.	 	
resistor (R10) (for GT-					
46181-1809-T2, GT-					
46181-1812-T2 or GT-					
46181-1815-T2)					
21. Secondary Capacitor	Various	Various	Min. 105°C	 	
(C8)					

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Enclosures

<u>Type</u>	Supplement Id	<u>Description</u>
Diagrams	4-01	Enclosure drawing
Diagrams	4-03	Choke NF1
Diagrams	4-04	Transformer T1 (XF00941)
Diagrams	4-05	Transformer T1 (XF00962)
Diagrams	4-06	Transformer T1 (XF00933)
Diagrams	4-07	Heatsink (HS1)
Diagrams	4-08	Heatsink (HS2)
Diagrams	4-09	Strain relief dimension
Schematics + PWB	5-01	PCB Layout
Miscellaneous	7-01	Models, Ratings and the Differences Table



RDS-041 07. 03

SPECIFICATION

3. MATERIAL LIST:

I TEM	MATERI AL	SUPPLI ER	UL Nb.
COFE .	RIOK	Acme	
W9. 8			
	UEVW U	Pacific electric wire & cable	E201757
 WFE	UEW8/U	co., Itd	1201737
V V I L	ŒW4	Jung Shing wire co., Itd	E174837
	UEY-2	Journey Wile Co., Ita	L174037
BOBBIN	T375J	CHANG CHUN PLASTOS CO., LTD.	E59481
LOCAL IN	PM9820	SUM TOMO BAKELI TE	E211989
	1350F- (#)	3M COMPANY BLECTRI CAL PRODUCTS	E17385
TAPE	1350T- 1	DV	E17363
	370S	BONDTEC PACI FI C CO., LTD	E175868
VAFN SH	V1630FS	VI KI NG PRODUCTS	E60614
VARIA	BC-346A	JOHN C DOTLEH CO	E76517

DESCRIPTION	a-axe	Customer P/N	NF00030	DATE	2009/ 4/ 8

RDS041.0307

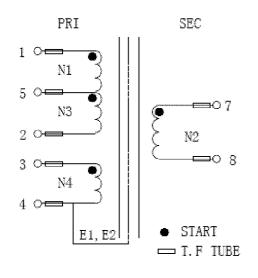
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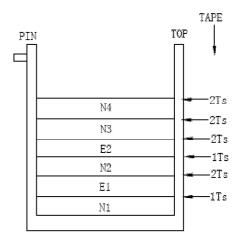
SPECIFICATION

DIA-04

SCHEMATIC:

WINDING CONSTRUCTION:





4. WINDING TABLE

	MARGIN						T.F	TURE	
WINDING	TAPE PIN/TOP	START	FINISH	WIRE SIZE	TURNS	TAPE	START	FINISH	NOTES
Mi	0/0	1	7	Ф0. 18∗2P	60Ts	iTs	ige.	✓″	The state of the s
E1	0/0	đ	Œ	0.025T*7%	0. 9Tz	ZTz	w ^r		ļķ i
NZ	0/0	7	8	Ф0. (≉4₽ TRW(B)	6T3	1Ta	*	√	& A
E2	0/0	4	CU	0. 025T*7#	0. 9 Ts	2Ts	~		E 132
113	0/0	Ę,	f [*] j is	Ф0, 18+2P	30Ts	2Ts	v.	*	
)ta	0/0	3	4	Ф0. I8*IP	17Ts	2Ts	*skf*	ight ^{e.}	中語鏡

NOTE:

- 1. PIN 朝外, 机器顺时针绕制.
- 2. E1, E2 爲內銅箔(背膠一层反折 2MM MIN),接引線 Φ0. 20*1P 於 PIN4 腳.
- 3. N1 关绕线前在 PIN6-10 侧 PIN 端贴 7.6MM/W 的 L 型胶布, 待 E1 绕完后反折 回线包内 3MM MIN。
- 4. E2 关绕线前在 PIN6-10 侧 PIN 端贴 17MM/W 的 L 型胶布, 待 N4 绕完后反折 回线包内 3MM MIN。

DESCRIPTION TRANSFORMER	Customer P/N	XF00941	DATE	2015/7/15
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SPECIFICATION

5. ELECTRONICAL CHARACTERISTIC: (電器特性)

1) INDUCTANCE: (TEST AT@1KHz, 0.25V BY ZENTECH 1062)

 $LX(1-2): 1.6mH \pm 5\%$

2) LEAKAGE INDUCTANCE (TEST AT @1KHz, 0.25V) LK(1-2): 200uH MAX (SHORT OTHER PIN)

3) DC RESISTANCE (AT 25°C BY ZENTECH 502AC)

 $R(1-2): 1.6\Omega MAX$

4) HI-POT: (TOPWARD CS2670A)

P-S:AC 3.75KV 50/60Hz 5mA 3SEC W-C:AC 1.0KV 50/60Hz 5mA 3SEC

5). INSULATION TEST (DC 500V)

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

DESCRIPTION TRANSFORMER Customer P/N XF00941 DATE 2015/7/15

SPECIFICATION

6. MATERIAL LIST:

	ITEM	MATERIAL	SUPPLIER	UL No.	TEMP RATING
		BP4A	፠ BDK		
1	CORE (EE22)	JP4	SHENZHEN JLW ELECTRONIC CO.,LTD		
	(====)	JPP-4	A-CORE		
2	BOBBIN	<u>T</u> 375J	CHANG CHUN PLASTCS CO.,LTD.	E59481	
	(EE22)	PM9820	SUMITOMO BAKELITE	E41429	
	THE F	UEWN/U UEWS/U	PACIFIC ELECTRIC WIRE&CABLE CO.,LTD	E201757	130℃
3	WIRE	UEW-4 UEY-2	JUNG SHING WIRE CO.,LTD	E174837	130℃
4	TAPE	1350F-(#) 1350T-1	3M COMPANY ELECTRICAL PRODUCTS DIV	E17385	
		370S	BONDTEC PACIFIC CO.,LTD	E175868	
5	VARNISH	V1630FS	ELANTAS ELECTRICAL INSULATION ELANTAS PDG INC		
	A WIVINDII	BC-346A	JOHN C.DOLPH.CO.	E317427	
6	TUBE	TFL TFS TFT	GREAT HOLDING INDUSTRLAL CO.,LTD	E156256	200°C
7	TRIPLE WIRE	TRW(B)	GREAT LEOFLON INDUSTRIAL CO.,LTD	E211989	
8	COPPER	0.025mmX7mm(背膠)	DONGGUAN YUAN YANG PLAS TIC PRODUCTS CO.,LTD		

DESCRIPTION	TRANSFORMER	Customer P/N	XF00941	DATE	2015/7/15

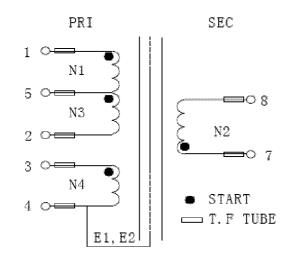
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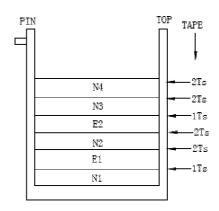
SPECIFICATION

DIA-05

SCHEMATIC:

WINDING CONSTRUCTION:





4. WINDING TABLE

	MARGIN						T, F	TUBE	
WINDING	TAPE PIN/TOP	START	FINISH	WIRE SIZE	TURNS	TAPE	START	FINISH	NOTES
W1	0/0	space)	5	Ф0. 18*2P	60Ts	ITs	*	*	
EI	0/0	4	cu	0. 025T*7₩	0.9Ts	2 T s	*		F-7 6 1 2
M2	0/0	7	8	\$0.45 *2 P TRW(B)	10Ts	2Ts	V	V	音號
E2	0/0	4	CU	0. 025T¥7W	0.9Ts	*FS	√		FF 843
143	0/0	5	2	Ф0.18*2F	30Ts	2Ts	√	√	審+旅誌
184	0/0	3	4	Ф0.2 *1P	13Ts	2 T s	*	~	中密統

NOTE:

- 1. PIN 朝外, 机器顺时针绕制.
- 2. E1, E2 爲內銅箔(背膠一层反折 2MM MIN),接引線 Φ0. 20*1P 於 PIN4 腳.
- 3. N1 关绕线前在 PIN6-10 侧 PIN 端贴 7.6MM/W 的 L 型胶布, 待 E1 绕完后反折 回线包内 3MM MIN。
- 4. E2 关绕线前在 PIN6-10 侧 PIN 端贴 17MM/W 的 L 型胶布, 待 N4 绕完后反折 回线包内 3MM MIN。

DESCRIPTION TRANSFORMER	Customer P/N	XF00962	DATE	2015/7/15
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SPECIFICATION

5. ELECTRONICAL CHARACTERISTIC: (電器特性)

1) INDUCTANCE: (TEST AT@10KHz, 0.25V BY ZENTECH 1062)

LX(1-2): 1.4mH+/-5%

2) LEAKAGE INDUCTANCE (TEST AT @10KHz, 0.25V)

LK(1-2): 100uH MAX (SHORT OTHER PIN)

3) DC RESISTANCE (AT 25°C BY ZENTECH 502AC)

 $R(1-2): 1.6 \Omega MAX$

4) HI-POT: (TOPWARD CS2670A)

P-S:AC 3.75KV 50/60Hz 5mA 3SEC

W-C:AC 1.0KV 50/60Hz 5mA 3SEC

5). INSULATION TEST (DC 500V)

BETWEEN PRI. TO SEC. & PRI. TO CORE AND SEC TO CORE THE RESISTANCE

MORE 100M ohm.

DESCRIPTION TRANSFORMER Customer P/N XF00962 DATE 2015/7/15

SPECIFICATION

6. MATERIAL LIST:

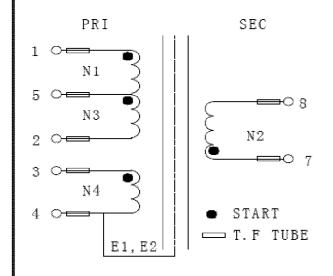
	ITEM	MATERIAL	SUPPLIER	UL No.	TEMP RATING
		BP4A	፠ BDK		
1	CORE (EE22)	JP4	SHENZHEN JLW ELECTRONIC CO.,LTD		
	(====)	JPP-4	A-CORE		
2	BOBBIN	<u>T</u> 375J	CHANG CHUN PLASTCS CO.,LTD.	E59481	
	(EE22)	PM9820	SUMITOMO BAKELITE	E41429	
	THE F	UEWN/U UEWS/U	PACIFIC ELECTRIC WIRE&CABLE CO.,LTD	E201757	130℃
3	WIRE	UEW-4 UEY-2	JUNG SHING WIRE CO.,LTD	E174837	130℃
4	TAPE	1350F-(#) 1350T-1	3M COMPANY ELECTRICAL PRODUCTS DIV	E17385	
		370S	BONDTEC PACIFIC CO.,LTD	E175868	
5	VARNISH	V1630FS	ELANTAS ELECTRICAL INSULATION ELANTAS PDG INC		
	A WIVINDII	BC-346A	JOHN C.DOLPH.CO.	E317427	
6	TUBE	TFL TFS TFT	GREAT HOLDING INDUSTRLAL CO.,LTD	E156256	200°C
7	TRIPLE WIRE	TRW(B)	GREAT LEOFLON INDUSTRIAL CO.,LTD	E211989	
8	COPPER	0.025mmX7mm(背膠)	DONGGUAN YUAN YANG PLAS TIC PRODUCTS CO.,LTD		

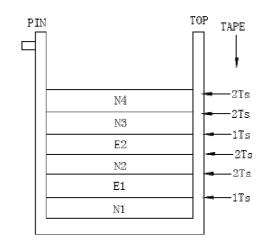
DESCRIPTION TRA	NSFORMER Custome	er P/N	XF00962	DATE	2015/7/15

SPECIFICATION



WINDING CONSTRUCTION:





4. WINDING TABLE

	MARGIN						I.F	TUBE	
WINDING	TAPE PIN/TOP	START	FINISH	WIRE SIZE	TURNS	TAPE	START	FINISH	NOTES
Ni	0/0	y ₂₀₀₀	5	Ф0.18*2P 2UEW-N	60Ts	175	V	*	THE E
E1	0/0	4	CU	Q. 025T*7₩	0.9Ts	2Ts	V		
N2	0/0	7	8	Ф0.35 *2 P TRW(B)	12Ts	2Ts	V	√°	密線
E2	0/0	4	CU	Q. 025T*7W	0.9Ts	iTs	*		居中
N3	0/0	5	2	Ф0.18*2P 2UEW-N	30Ts	2Ts	V	√	警士減緩
N4	0/0	Q")	4	Φ0.2*1P 2UEW-N	14Ts	2Ts	√,	*	中密機

NOTE:

- 1. PIN 朝外, 机器顺时针绕制.
- 2. E1, E2 為內銅箔(背膠一层反折 2MM MIN),接引線 Φ0. 20*1P 於 PIN4 腳.
- 3. N1 关绕线前在 PIN6-10 侧 PIN 端贴 7.6MM/W 的 L 型胶布, 待 E1 绕完后反折 回线包内 3MM MIN。
- 4. E2 关绕线前在 PIN6-10 侧 PIN 端贴 17MM/W 的 L 型胶布, 待 N4 绕完后反折 回线包内 3MM MIN。

				·····	
DESCRIPTION	TDANCEODMED	Customer P/N	AEUUUSS	DATE	9015/7/15
INFOCKILLION	IKANOFURMER	Customer 1/N	AFUU933	ν_{A1E}	2010/1/10

SPECIFICATION

- 5. ELECTRONICAL CHARACTERISTIC: (電器特性)
- 1) INDUCTANCE: (TEST AT@10KHz, 0.25V BY ZENTECH 1062) LX(1-2): 1.4mH+/-5%
- 2) LEAKAGE INDUCTANCE (TEST AT @10KHz, 0.25V) LK(1-2): 100uH MAX (SHORT OTHER PIN)
- 3) DC RESISTANCE (AT 25°C BY ZENTECH 502AC)

 $R(1-2): 1.6 \Omega MAX$

- 4) HI-POT: (TOPWARD CS2670A) P-S:AC 3.75KV 50/60Hz 5mA 3SEC W-C:AC 1.0KV 50/60Hz 5mA 3SEC
- 5). INSULATION TEST (DC 500V)
 BETWEEN PRI. TO SEC. & PRI. TO CORE AND SEC TO CORE THE RESISTANCE
 MORE 100M ohm.

DESCRIPTION TRANSFORMER Customer P/N XF00933 DATE 2015/7/15

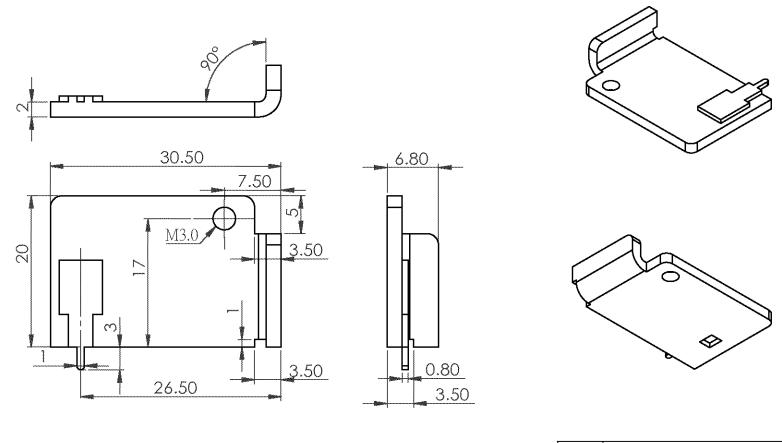
SPECIFICATION

6. MATERIAL LIST:

	ITEM	MATERIAL	SUPPLIER	UL No.	TEMP RATING
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	(====)	JPP-4	A-CORE		
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	(EE22)	PM9820	SUMITOMO BAKELITE	E41429	
		UEWN/U UEWS/U	PACIFIC ELECTRIC WIRE&CABLE CO.,LTD	E201757	130℃
3	WIRE	UEW-4 UEY-2	JUNG SHING WIRE CO.,LTD	E174837	130°C
4	TAPE	1350F-(#) 1350T-1	3M COMPANY ELECTRICAL PRODUCTS DIV	E17385	
		370S	BONDTEC PACIFIC CO.,LTD	E175868	
5	VARNISH	V1630FS	ELANTAS ELECTRICAL INSULATION ELANTAS PDG INC		
	V VIVINDII	BC-346A	JOHN C.DOLPH.CO.	E317427	
6	TUBE	TFL TFS TFT	GREAT HOLDING INDUSTRLAL CO.,LTD	E156256	200℃
7	TRIPLE WIRE	TRW(B)	GREAT LEOFLON INDUSTRIAL CO.,LTD	E211989	
8	COPPER	0.025mmX7mm(背膠)	DONGGUAN YUAN YANG PLAS TIC PRODUCTS CO.,LTD		

DESCRIPTION	TRANSFORMER	Customer P/N	XF00933	DATE	2015/7/15

Att.5



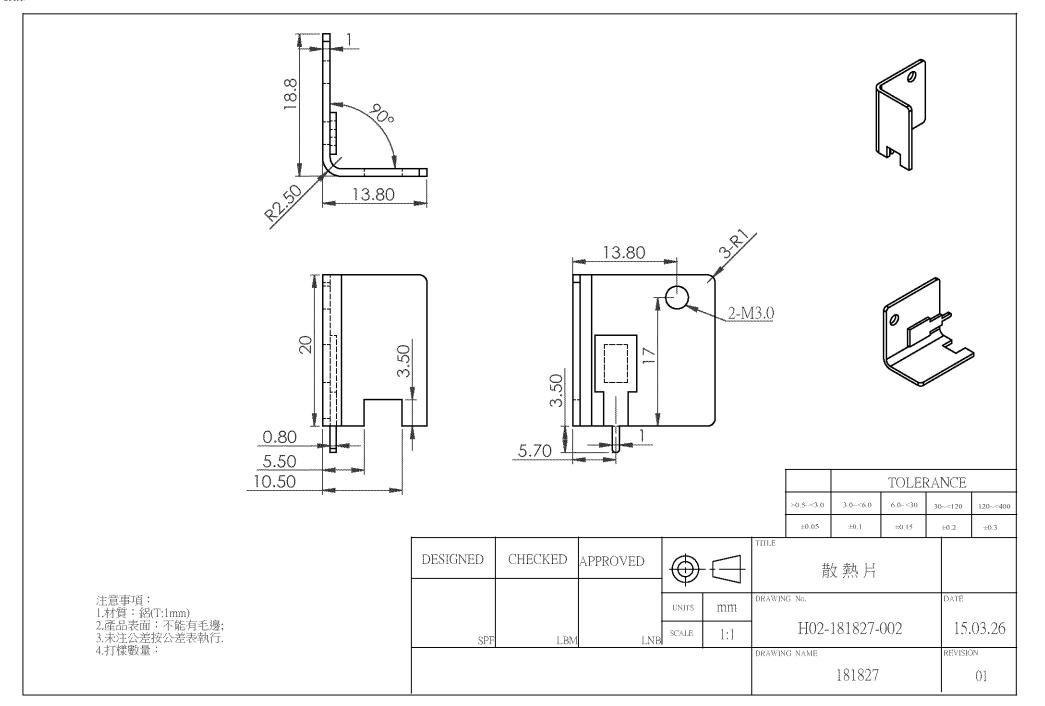
材質和顏色以BOM爲準,帶*為重點尺寸

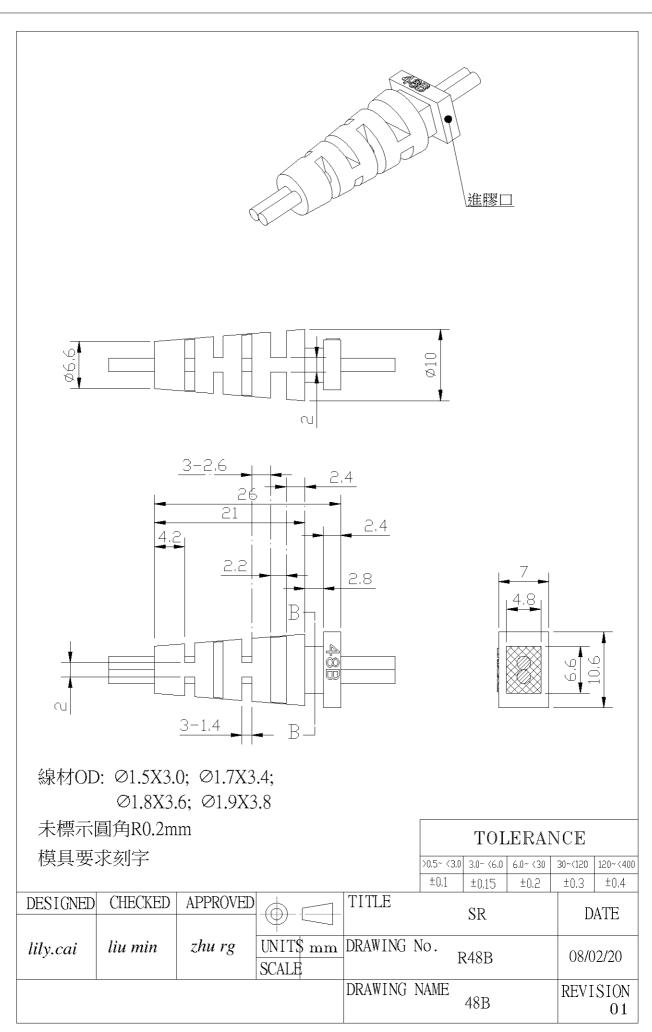
		TOLERANCE						
>0.5<3.0	3.0~<6.0	6.0-<30	30~<120	120~<400				
±0.05	±0.1	±0.15	±0.2	±0.3				

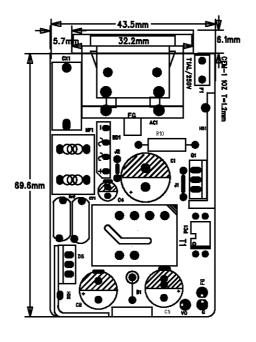
APPROVED DESIGNED CHECKED 散熱片 DRAWING No. DATE UNITS mm 14.11.24 H02-201821-002 SCALE 1:1 SPF LBM LNB DRAWING NAME REVISION 201821 01

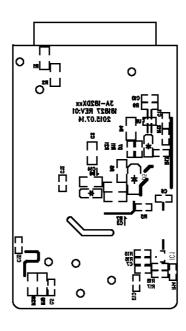
TITLE

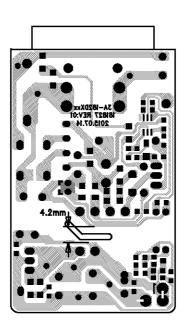
注意事項: 1.材質:鋁 2.產品表面:不能有毛邊; 3.未注公差按公差表執行. 4.打樣數量:20pcs Att.5

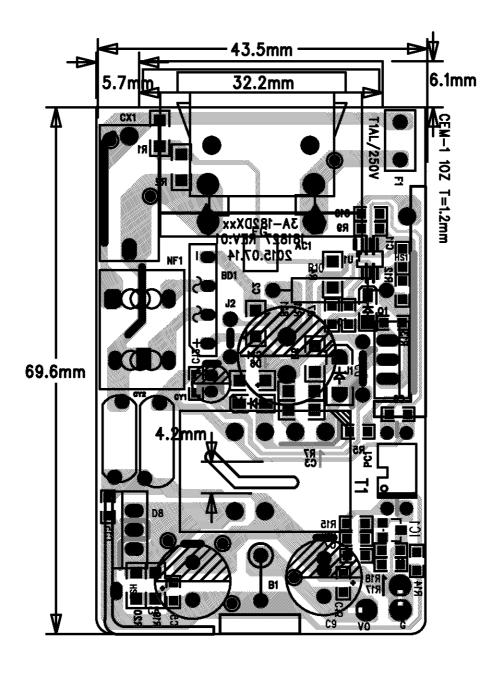












File E³G¶¹model name	Output voltage	Output current	Max.W	Transformer
GT-46181-1505-T2	5V	3.0A	15W	XF00941
GT-46181-1605-T2	5V	3.2A	16W	AF00941
GT-46181-1809-T2	9\	2A	18W	XF00962
GT-46181-1812-T2	12V_	1.5A	18W	VE00033
GT-46181-1815-T2	15V	1.2A	18W	XF00933

Issue Date: 2016-04-07 Page 1 of 1 Report Reference # E341351-A83-UL

Test Record

Test Record No. 1

Tests on Model GT-46181-WWVV-X.X-T2 are not required due to copy file