UL TEST REPORT AND PROCEDURE

Standard: Certification Type:	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) Listing
CCN:	QQGQ, QQGQ7 (Power Supplies for Information Technology Equipment Including Electrical Business Equipment)
Product:	ITE POWER SUPPLY
Model:	 GT-46181-WWVV-X.X-TZ, GT-41062-WWVV-X.X-TZ, GT-41082-WWVV-X.X-TZ 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. Z can be 3 or 3A, 3 means C14 inlet type for Class I EUT, 3A means C6 inlet type for Class I EUT.
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.

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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
 - 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 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 I (earthed)
- 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

- 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 instruction	ons			
Clause Title	Marking or Instruction Details			
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 (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.

Production-L	ine Testing Requ	uirements						
Electric Stree	Electric Strength Test Special Constructions - Refer to Generic Inspection Instructions, Part AC for							
further inform	nation.							
		Removable		V		Test Time,		
Model	Component	Parts	Test probe location	rms	V dc	S		
All Models	T1		Primary to Secondary	300 0	4242	1		
				0				
	4	national This 4						
	itinuity lest Exer	npuons - i nis t	est is not required for th	e tollow	ing models:			
All models								
Electric Stree	ngth Test Exempt	<u>tions - This test</u>	is not required for the f	ollowing	models:			
	anth Taat Commo	nent Evenntier	The following colid	-1-1				
			<u>ns - The following solid-</u> uitry during the performa			ay be		
N/A								
Sample and	Test Specifics for	r Follow-Up Tes	<u>sts at UL</u>					
						Test		
Model	Component	Material	Test	S	ample(s)	Specifics		
N/A								

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1.5.1	TABLE: list of critical components					
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 and 4-02 for dimensions	QMFZ2	UL	
02. Appliance Inlet (for Z=3)	TECX-UNIONS TECHNOLOGY CORP	TU-301-SP	Rated 250 V, 15 A, 105 degree C min.	AXUT2	UL	
02a. Appliance Inlet (alternate) (for Z=3)	SUN FAIR ELECTRIC WIRE & CABLE (HK) CO LTD	S-03	Rated 250 V, 10 A, 75 degree C min.	AXUT2	UL	
02b. Appliance Inlet (alternate) (for Z=3)	ZHEJIANG LECI ELECTRONICS CO LTD	DB-14	Rated 250 V, 15 A, 75 degree C min.	AXUT2	UL	
02c. Appliance Inlet (alternate) (for Z=3)	ZHE JIANG BEI ER JIA ELECTRONIC CO LTD	ST-A01-003J	Rated 250 V, 10 A, 75 degree C min.	AXUT2	UL	
02-1. Appliance Inlet (for Z=3A)	TECX-UNIONS TECHNOLOGY CORP	TU-333	Rated 250 V, 2.5 A, 105 degree C min.	AXUT2	UL	
02-1a. Appliance Inlet (alternate) (for Z=3A)	SUN FAIR ELECTRIC WIRE & CABLE (HK) CO LTD	S-02	Rated 250 V, 2.5 A, 75 degree C min.	AXUT2	UL	
02-1b. Appliance Inlet (alternate) (for Z=3A)	ZHEJIANG LECI ELECTRONICS CO LTD	DB-6	Rated 250 V, 2.5 A, 75 degree C min.	AXUT2	UL	
02-1c. Appliance Inlet (alternate) (for Z=3A)	ZHE JIANG BEI ER JIA ELECTRONIC CO LTD	ST-A04-002	Rated 250 V, 2.5 A, 75 degree C min.	AXUT2	UL	
03. Fuse (F1)	Various	Various	Listed, T1AL 250Vac	JDYX	UL	
03a. Fuse (F1)	Conquer Electronics	MST	Rated T1AL, 250Vac.	JDYX2	UL	

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(Alternate)	Co Ltd				
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 LTD	932	Rated T1AL, 250Vac.	JDYX2	UL
04. X-Capacitor (CX1)	Cheng Tung Industrial Co Ltd	СТХ	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

	1	1		I		
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 4A, 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	
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	COSMO	K1010	Isolation voltage minimum 5000	FPQU2	UL	

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(PC1) (Alternate)	ELECTRONICS CORP		Vac, minimum 115 degree C.			
10c. Optical Isolators (PC1) (Alternate)	BRIGHT LED ELECTRONICS CORP	BPC- 817XXXXXX, BPC- 817MXXXXXX, BPC- 817SXXXXXX, where XXXXXX can be any alphanumeric character or blank.	Isolation voltage minimum 5000 Vac, minimum 100 degree C.	FPQU2	UL	
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) (Optional)	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-TZ, GT- 46181-1605-TZ)		XF00941	Class B, See Enclosure / Diagram ID 4-04 for construction details.			
12. Transformer (T1) (for GT-46181-1809-TZ)		XF00962	Class B, See Enclosure / Diagram ID 4-05 for construction details.			
12. Transformer (T1) (for GT-46181-1812-TZ, GT- 46181-1815-TZ)		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			

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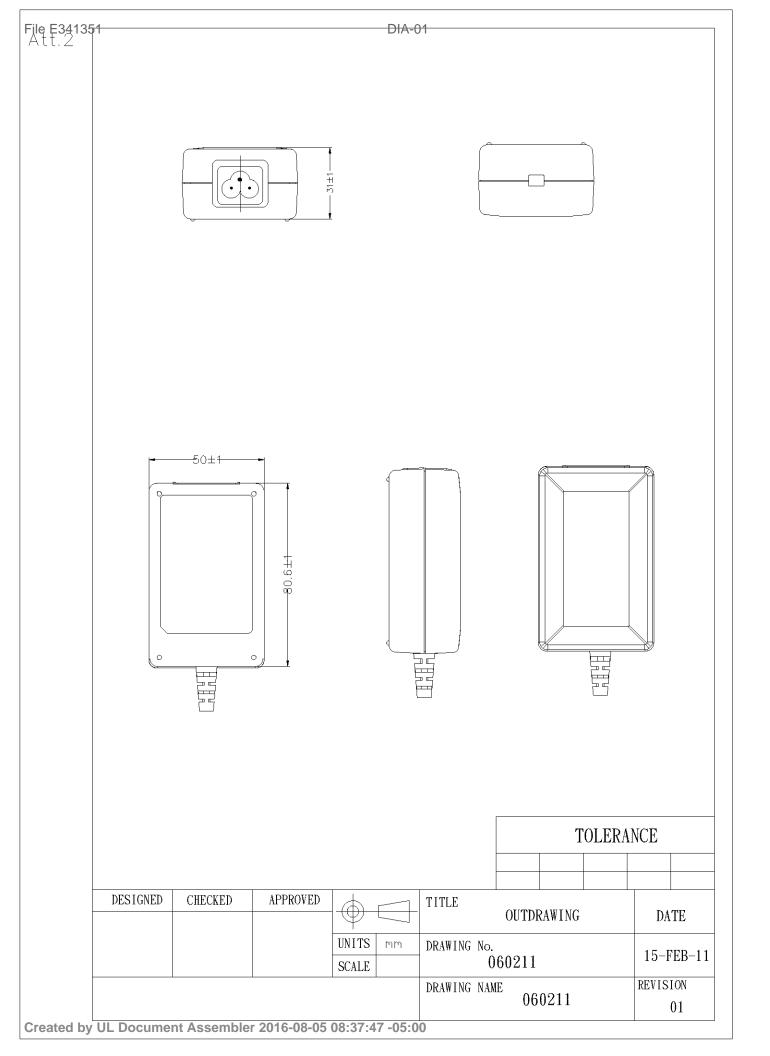
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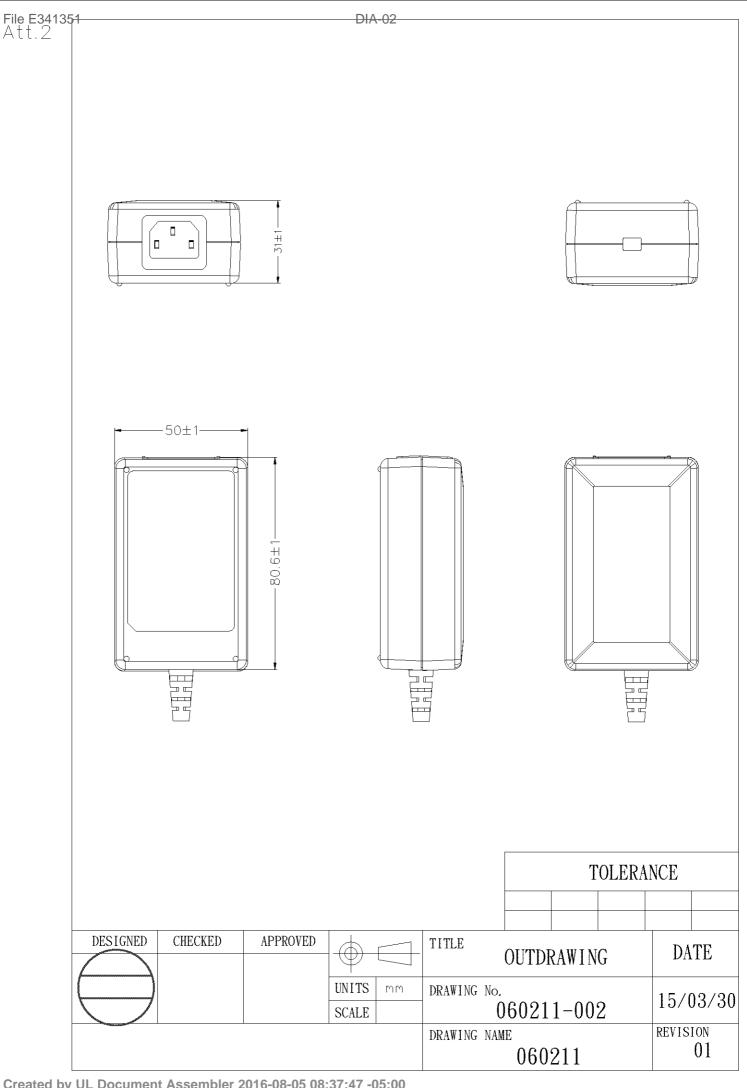
			22.8 mm by 19.2 mm by 5.7 mm		
12-03. Coil			130 degree C	OBMW2	
12-04. Bobbin	Chang Chun Plastics Co., Ltd.	T375J	V-0, 150degree C, Phenolic, thickness 0.8mm minimum	QMFZ2	
12-04a. Bobbin (Alternate)	SUMITOMO BAKELITE CO LTD	PM-9820	V-0, 150degree C, Phenolic, thickness 0.71mm minimum	QMFZ2	UL
12-05. 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
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)	Various	Various	Aluminum, minimum 2.0 mm thick. See Enclosure for		

(Consideration as Primary)			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-TZ)			1.1 ohm, 1W.			
20. Current sense resistor (R10) (for GT- 46181-1505-TZ)			1.2 ohm, 1W.			
20. Current sense resistor (R10) (for GT- 46181-1809-TZ, GT- 46181-1812-TZ or GT- 46181-1815-TZ)			1.0 ohm, 1W.			
21. Bonding Conductor	Various	Various	Green or green/yellow wire, minimum No. 18 AWG. Min 105 degree C, rated 300V minimum.	AVLV, AVLV2	UL	
22. Secondary Capacitor (C8)	Various	Various	Min. 105°C			

Enclosures

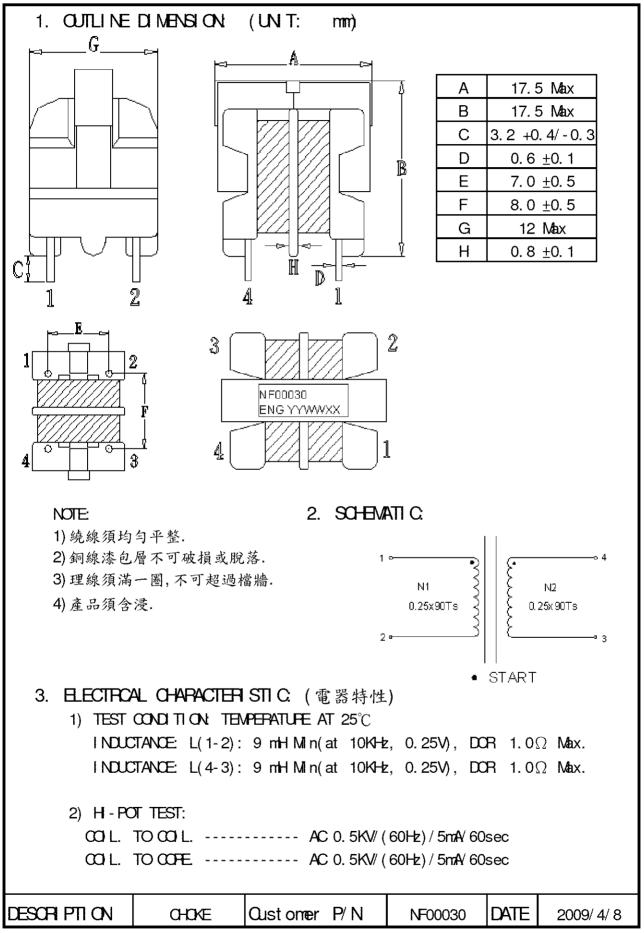
<u>Type</u>	Supplement Id	Description
Diagrams	4-01	Models GT-46181-WWVV-X.X-T3A Enclosure
Diagrams	4-02	Models GT-46181-WWVV-X.X-T3 Enclosure
Diagrams	4-03	Choke NF1
Diagrams	4-04	Transformer T1 (XF00941)
Diagrams	4-05	Transformer T1 (XF00962)
Diagrams	4-06	Transformer T1 (XF00933)
Diagrams	4-07	Heatsink (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





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3. MATERIAL LIST:

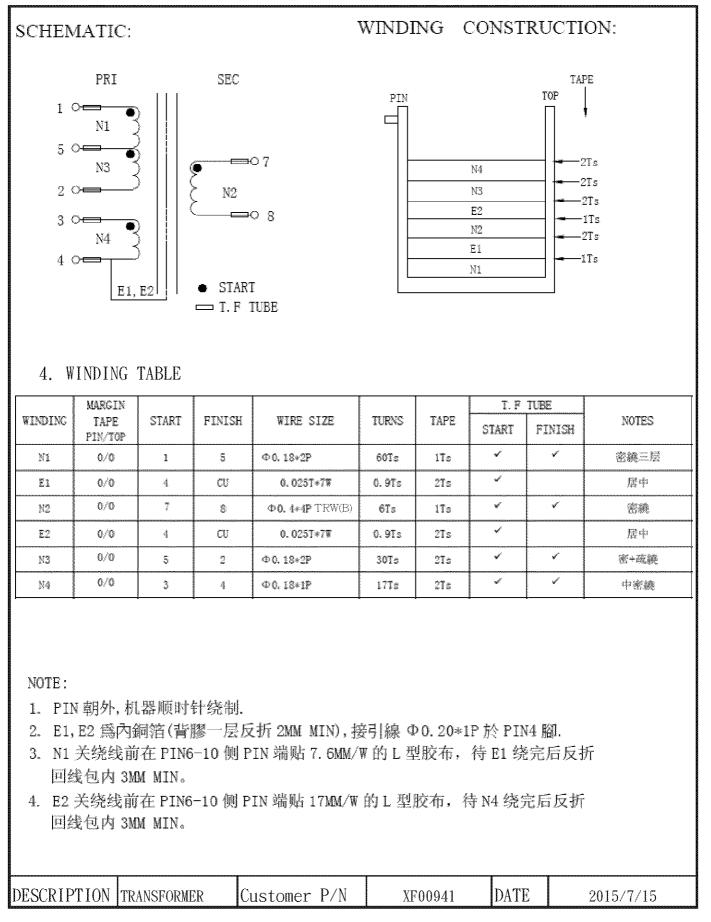
I TEM	MATERI AL	SUPPLI ER	UL Nb.	
CCFE	RIOK	Acme		
ULÐ. 8				
	LEVWU	Pacific electric wire & cable	E201757	
WFE	LEW5/U	co., Itd	1201737	
VVI L.	LEW4	Jung Shing wire co.,Itd	E174837	
	LEY-2	Jung aning wire co., ita		
BOBBIN	T375J	CHANG CHUN PLASTOS CO., LTD.	E59481	
	PM9820	SUMI TOMO BAKELI TE	E211989	
	1350F-(#)	3M COMPANY ELECTRI CAL PRODUCTS	E17385	
TAPE	1350T- 1	DV	E17365	
	370S	BONDTEC PACI FIC CO., LTD	E175868	
VAFN SH	V1630FS	VI KI NG PRODUCTS	E60614	
	BC-346A	JOHN C. DOLPH CO.	E76517	

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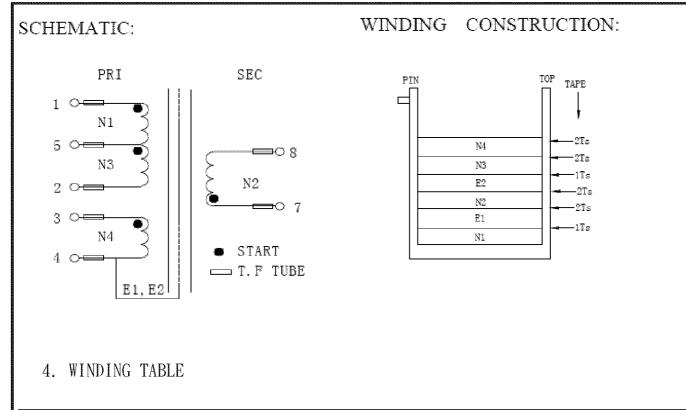


5. ELECTRONICAL CHARACTERISTIC:(電器特性)
<pre>1) INDUCTANCE: (TEST AT@1KHz, 0.25V BY ZENTECH 1062) LX(1-2): 1.6mH±5%</pre>
2) LEAKAGE INDUCTANCE(TEST AT @1KHz, 0.25V) LK(1-2): 200uH MAX (SHORT OTHER PIN)
3) DC RESISTANCE (AT 25°C BY ZENTECH 502AC)
$R(1-2): 1.6 \Omega$ MAX
4) HI-POT: (TOPWARD CS2670A) P-S:AC 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

6. MATERIAL LIST:

	ITEM		SUPPLIER	UL No.	TEMP RATING
ITEM MATERIAL BP4A			*BDK	UL INO.	TEMP KATING
1	CORE	JP4	SHENZHEN JLW ELECTRONIC CO.,LTD		
	(EE22)			-	
		JPP-4	A-CORE	DC0 (01	
2	BOBBIN (EE22)	T375J	CHANG CHUN PLASTCS CO.,LTD.	E59481	
		PM9820	SUMITOMO BAKELITE	E41429	
		UEWN/U UEWS/U	PACIFIC ELECTRIC WIRE&CABLE CO.,LTD	E201757	130°C
3	WIRE	UEW-4			
		UEY-2	JUNG SHING WIRE CO.,LTD	E174837	130℃
		1350F-(#)			
4	TAPE	1350T-1	3M COMPANY ELECTRICAL PRODUCTS DIV	E17385	
		370S	BONDTEC PACIFIC CO.,LTD	E175868	
5	VARNISH	V1630FS	ELANTAS ELECTRICAL INSULATION ELANTAS PDG INC	E75225	
		BC-346A	JOHN C.DOLPH.CO.	E317427	
		TFL	_	E156256	200°C
6	TUBE	TFS	GREAT HOLDING INDUSTRLAL CO.,LTD		
		TFT			
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		
)ES	CRIPTION	TRANSFORMER Cus	stomer P/N XF00941	DATE	2015/7/15

File E341351



	MARGIN						T, F	TUBE	
WINDING	TAPE PIN/TOP	START	FINISH	WIRE SIZE	TURNS	TAPE.	START	FINISH	NOTES
MI	0/0	ngan di	5	Ф0. 18*2P	60Ts	iTs.	~	1	密練三屋
EI	0/0	4	CU	0. 025T¥7₩	0.9Ts	2Ta	~		
N2	0/0	7	8	\$0.45*2P TRW(B)	10Ts	2Ta	1	~	密統
E2	0/0	4	CU	0. 025T¥7₩	0. 9Ts	u Fis	~		
N3	0/0	cu	2	Ф0, 18≉2P	30Ts	2Ts	~	~	蜜+藏離
N4	0/0	3	4	Ф0.2 * 1P	13Ts	2Ts	~	*	中密繞

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

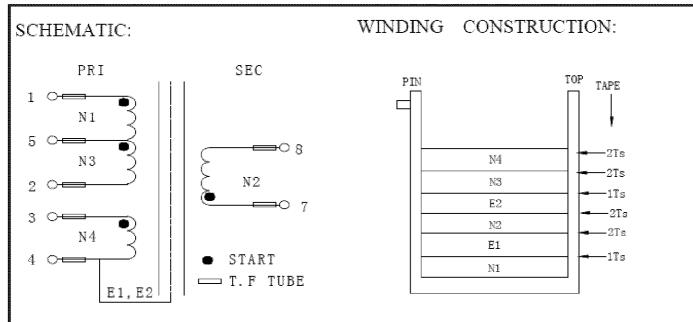
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5. ELECTRONICAL CHARACTERISTIC: (電器特性)
<pre>1) INDUCTANCE: (TEST AT@10KHz, 0.25V BY ZENTECH 1062) LX(1-2): 1.4mH+/-5%</pre>
2) LEAKAGE INDUCTANCE(TEST AT @10KHz, 0.25V) LK(1-2): 100uH MAX (SHORT OTHER PIN)
3) DC RESISTANCE (AT 25°C BY ZENTECH 502AC)
$R(1-2): 1.6 \Omega$ 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 MORE 100M ohm.
MORE 100m OHM.

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

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	T375J	CHANG CHUN PLASTCS CO.,LTD.	E59481	
	(EE22)	PM9820	SUMITOMO BAKELITE	E41429	
		UEWN/U	PACIFIC ELECTRIC WIRE&CABLE CO.,LTD	E201757	130℃
3	WIRE	UEWS/U			
		UEW-4	JUNG SHING WIRE CO.,LTD	E174837	130℃
		UEY-2			
4	TAPE	1350F-(#)	3M COMPANY ELECTRICAL PRODUCTS DIV	E17385	
4		1350T-1		E176040	
	VARNISH	370S V1630FS	BONDTEC PACIFIC CO.,LTD ELANTAS ELECTRICAL INSULATION ELANTAS PDG INC	E175868	
5		BC-346A	JOHN C.DOLPH.CO.	E317427	
		TFL		E156256	
6	TUBE	TFS	GREAT HOLDING INDUSTRLAL CO.,LTD		200°C
		TFT			
7	TRIPLE WIRE	TRW(B)	GREAT LEOFLON INDUSTRIAL CO.,LTD	E211989	
8	COPPER	0.025mmX7mm(背朋	DONGGUAN YUAN YANG PLAS TIC PRODUCTS CO.,LTD		
ES	CRIPTION	TRANSFORMER CU	istomer P/N XF00962	DATE	2015/7/15

File E341351



4. WINDING TABLE

	MARGIN						T.F	TUBE	
WINDING	TAPE PIN/TOP	START	FINISH	WIRE SIZE	TURNS	TAPE	START	FINISH	NOTES
NI	0/0	ionete	5	Φ0.18*2P 2UEW-N	60Ts	t I s	4	, di	密純 三层
E1	0/0	4	CU	0.025T*7W	0.9Ts	2Ts	1		屬中
N2	0/0	7	8	Ф0.35≉2P TRW(B)	12Ts	2Ts	~	-str	密続
E2	0/0	4	CU	0.025T*7W	0.9Ts	17s	~		fin of a
MS	0/0	5	2	Φ0.18*2P 2UEW-N	30Ts	2Ts	~	*	密+疏繞
N4	0/0	Q V	4	00.2*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。

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

RESISTANCE

SPECIFICATION	
5. ELECTRONICAL CHARACTERISTIC:(電器特性)	
<pre>1) INDUCTANCE:(TEST AT@10KHz, 0.25V BY ZENTECH 1062) LX(1-2): 1.4mH+/-5%</pre>	
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) $R(1-2): 1.6 \Omega \text{ MAX}$	
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 T MORE 100M ohm.	ΉE

DESCRIPTION TRANSFORMER Customer P/N XF00933 DATE 2015/7/15						
	DESCRIPTION	TRANSFORMER	IUUSTOIIEL L/N	XF00933	IDATE	

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		
	BOBBIN	Т375Ј	CHANG CHUN PLASTCS CO.,LTD.	E59481	
2	(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 IN	C E75225	
5		BC-346A	JOHN C.DOLPH.CO.	E317427	
6	TUBE	<u>TFL</u> TFS TFT	GREAT HOLDING INDUSTRLAL CO.,LTD	E156256	200°C
7	TRIPLE WIRE	TRW(B)	GREAT LEOFLON INDUSTRIAL CO.,LTD	E211989	
			DONGGUAN YUAN YANG PLAS TIC PRODUCTS CO.,LTD		
ES	CRIPTION	TRANSFORMER Cu	stomer P/N XF00933	DATE	2015/7/15

Eil		E 2	11	2	51	I 1
lel-l	-9	E3		~~~~~		

Att.5								>		
						((
	7.50	یم 3.50 3.50		0.80 3.50				A Co		
								TOLE	RANCE	1
	材質和顏色」	以BOM爲2	隼,帶*為重	點尺寸		>0.5~<3. ±0.05		6.0~<30 ±0.15	30~<120 ±0.2	120~<40 ±0.3
	DESIGNED	CHECKED	APPROVED			MLE	散熱片			•
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	SPF	LBM	LNB	UNITS	mm r 1:1	DRAWING No. HO2 DRAWING NAME	2-201821	-002	DATE 14 REVISIO	.11.24
TTT PROCEED A MORE OF					1.	JRAWING NAME	201823		1212.01210	01

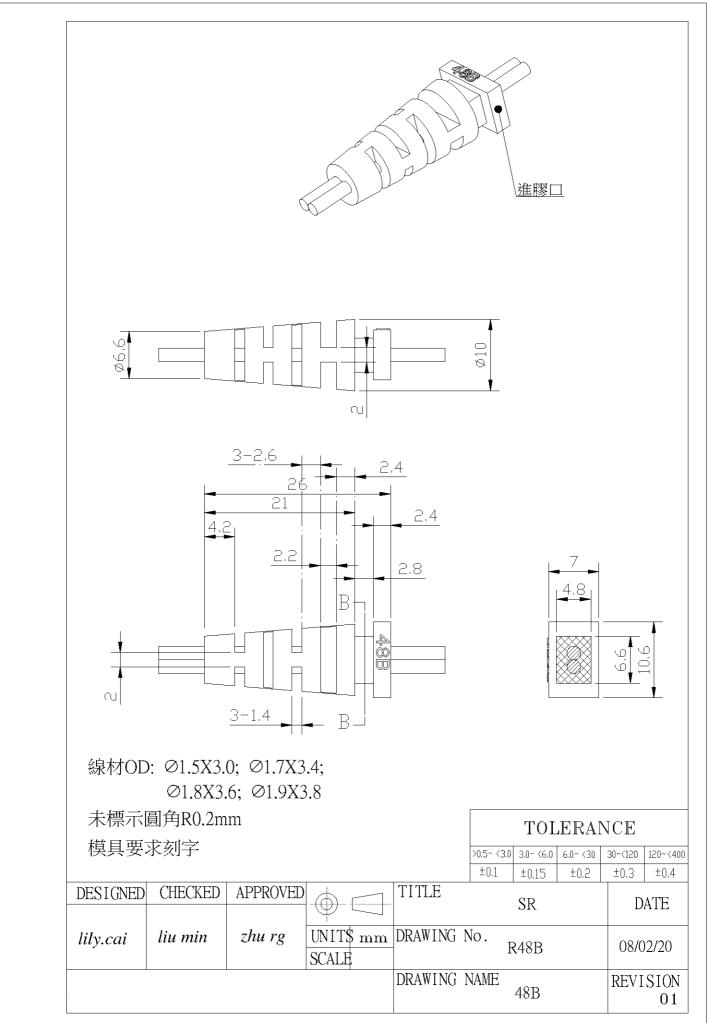
Att.5 18.8 -0₀ 24:50 13.80 Q. 13.80 2-M3.0 20 50 m' .50 Ć 0.80 5.70 5.50 10.50 TOLERANCE >0.5~<3.0 3.0~<6.0 6.0~<30 30~<120 ±0.05 :±0.1 ±0.15 ±0.2 TITLE DESIGNED CHECKED APPROVED 散熱片 (+注意事項: 1.材質:鋁(T:1mm) 2.產品表面:不能有毛邊; 3.未注公差按公差表執行. 4.打樣數量: DRAWING No. DATE UNITS mm H02-181827-002 15.03.26 SCALE 1:1 SPF LBM LNB DRAWING NAME REVISION

120~<400

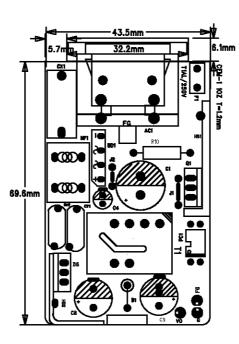
±0.3

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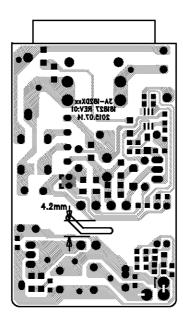


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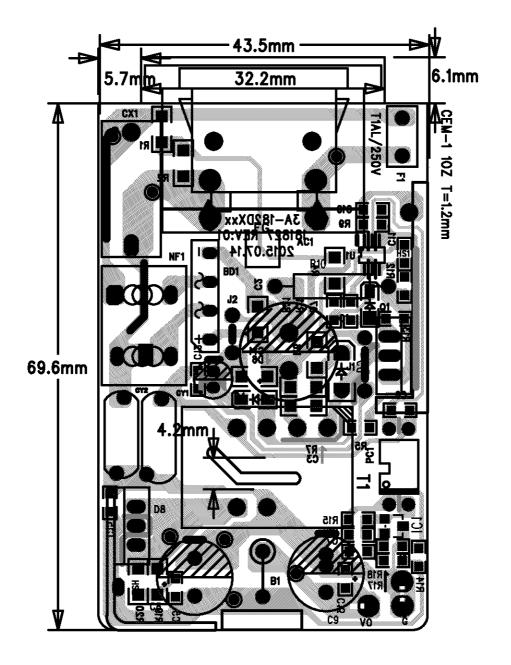


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Issue Date: 2016-04-07

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Test Record No. 1 Tests on Model GT-46181-WWVV-X.X-TZ