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:	AC/DC Charger
Model:	GJS150-XXXYYYY (XXX=042-058, denote 42-58V,YYYY=0010-2380, denote 0.01-2.38A)
Rating:	Input: 100-240VAC, 50/60Hz, 3.0A max. Output: 42Vdc-58Vdc, 0.01-2.380A
Applicant Name and Address:	SHENZHEN GOJUSIN TECHNOLOGY CO LTD BLOCK B NO.28 LIANHE INDUSTRIAL ZONE OF FIRST AREA NANYUE COMMUNITY LONGGANG STEET LONGGANG DISTRICT SHENZHEN GUANGDONG 518172 CHINA

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: Kemp He Reviewed by:

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

This unit is a AC/DC Charger with detachable power cord. All electrical components are mounted on one PWB and housed in plastic enclosure, provided with output cord.

Model Differences

Models GJS150-XXXYYYY are identical to each other, except for model names and output ratings.

Technical Considerations

- Equipment mobility : transportable, moveable
- 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% (Declared by manufacturer)
- 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) : PD 2
- IP protection class : IP X0
- Altitude of operation (m) : Up to 2000
- Altitude of test laboratory (m) : Less than 2000
- Mass of equipment (kg) : 0.6
- The product was submitted and evaluated for use at the maximum ambient temperature (Tma)

permitted by the manufacturer's specification of: 25 degree C

- The means of connection to the mains supply is: Pluggable A (detachable power supply 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: CY1 Secondary
- The following are available from the Applicant upon request: Installation (Safety) Instructions / Manual

Additional Information

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Additional Standards

The product fulfills the requirements of: --

Markings and instructions

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
Power rating - Class II symbol	Symbol for Class II construction ⧈ (60417-2-IEC-5172)
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 in this report	Transformer T1	--	Primary to Secondary	3000	4242	Minimum 1 s

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

All models in this report.

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:

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Sample and Test Specifics for Follow-Up Tests at UL

Model	Component	Material	Test	Sample(s)	Test Specifics
--	--	--	--	--	--

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
01. Enclosure	SABIC INNOVATIVE PLASTICS B V (E45329)	945 (GG)	PC, V-0, min. 1.0mm, 120 degree C.	QMFZ2	UL	
02. AC Inlet	RICH BAY CO LTD (E184638)	R-201SN90	Rated 2.5A, 250A, 70 degree C	AXUT2	UL	
02a. AC Inlet(Alternate)	ZHE JIANG BEI ER JIA ELECTRONIC CO LTD (E225980)	ST-A03-005	Rated 2.5A, 250A, 70 degree C	AXUT2	UL	
02b. AC Inlet(Alternate)	YUEQING HUACONN ELECTRONICS CO LTD (E340249)	HC-88	Rated 2.5A, 250A, 70 degree C	AXUT2	UL	
02c. AC Inlet(Alternate)	ZHEJIANG LECI ELECTRONICS CO LTD (E302229)	DB-8-8	Rated 2.5A, 250A, 70 degree C	AXUT2	UL	
03. PCB	Interchangeable	Interchangeable	Minimum V-1, minimum 105 degree C	ZPMV2	UL	
04. Fuse (F1)	DONGGUAN BETTER ELECTRONICS TECHNOLOGY CO LTD	334	Rated 3.15A, 250V.	JDYX2	UL	
04a. Fuse (F1) (Alternate)	Interchangeable	Interchangeable	Rated 3.15A, 250V.	JDYX	UL	
05. Heat Shrinkable tube (used for F1 and R7)	Interchangeable	Interchangeable	Min. VW-1, 125ºC, 600V.	YDPU2	UL	
06. Bridge Diode (BD1)	Interchangeble	Interchangeble	Min. 8A, min. 1000V	--	--	
07.Varistor (VR1) (Optional)	THINKING ELECTRONIC INDUSTRIAL CO	TVR10D471K, TVR10D681K	Rated 300Vac minimum, minimum 85 degree C	VZCA2	UL	

	LTD (E314979)					
07a.Varistor (VR1) (Optional) (Alternate)	SHANTOU HIGH-NEW TECHNOLOGY DEVELOPMNT ZONE SONGTIAN ENTERPRISE CO LTD (E330837)	10D471K, 10D681K	Rated 300Vac minimum, minimum 85 degree C.	VZCA2	UL	
07b.Varistor (VR1) (Optional) (Alternate)	CENTRA SCIENCE CORP (E316325)	CNR-10D471K, CNR-10D681K	Rated 300Vac minimum, minimum 85 degree C.	VZCA2	UL	
07c.Varistor (VR1) (Optional) (Alternate)	HONGZHI ENTERPRISES LTD (E324904)	HEL10D471K, HEL10D681K	Rated 300Vac minimum, minimum 85 degree C.	VZCA2	UL	
07d.Varistor (VR1) (Optional) (Alternate)	CERGLASS MFG INC (E317616)	10D471K, 10D681K	Rated 300Vac minimum, minimum 85 degree C.	VZCA2	UL	
07e.Varistor (VR1) (Optional) (Alternate)	LIEN SHUN ELECTRONICS CO LTD (E315524)	10D471K, 10D681K	Rated 300Vac minimum, minimum 85 degree C.	VZCA2	UL	
08. Electrolytic Capacitor (C2, C3)	Interchangeble	Interchangeble	Electrolytic Type. Rated 150 uF, minimum 400 V, minimum 105 degree C	--	--	
09.Transformer(T1)	Shenzhen Gojusin Technology Co., Ltd.	546210-120W	Class B,. See supplement 4-01 for details.	--	--	
09-1. Insulation System	SHENZHEN ANPINYUAN TECHNOLOGY CO LTD (E355927)	APY-01	Class B	OBJY2	UL	
09-2. Core	Interchangeable	Interchangeable	Ferrite, see ID4-02 for details.	--	--	
09-3. Triple Insulation wire	FURUKAWA ELECTRIC CO LTD (E206440)	TEX-B	Minimum 130 degree C.	OBJT2	UL	
09-4. Primary Winding	Interchangeable	Interchangeable	MW 30 or MW 35 or MW 36 or MW 73 or MW 74 or MW 76, minimum 180 degree	OBMW2	UL	

			C			
09-5. Bobbin	CHANG CHUN PLASTICS CO LTD (E59481)	T375J	Phenolic, minimum 0.75 mm thick, rated V-0, 150 degree C.	QMFZ2	UL	
09-5a. Bobbin (Alternate)	SUMITOMO BAKELITE CO LTD (E41429)	AM-113	Phenolic, minimum 0.75 mm thick, rated V-0, 150 degree C.	QMFZ2	UL	
09-6. Insulation Tape	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD (E165111)	PZ, WF	130 degree C	OANZ2	UL	
09-7. Varnish	KYOCERA CHEMICAL CORP [E83702]	TVB2180T*(a)	155 degree C	OBOR2	UL	
09-8. Insulation Tubing/Sleeving	CHANGYUAN ELECTRONICS GROUP CO LTD (E180908)	CB-TT	200 degree C.	YDPU2	UL	
10. Transistor (Q1, Q5)	Interchangeable	Interchangeable	Min. 10A, min. 600V	--	--	
11. Y-Capacitors (CY1)	SHANTOU HIGH-NEW TECHNOLOGY DEVELOPMNT ZONE SONGTIAN ENTERPRISE CO LTD (E208107)	CD	Rated minimum 250Vac, maximum 3300 pF. Minimum 85degree C, Y1 type.	FOWX2	UL	
11a. Y-capacitors(CY1) (Alternate)	JYA-NAY CO LTD (E201384)	JN	Rated minimum 250Vac, maximum 3300 pF. Minimum 85degree C, Y1 type.	FOWX2	UL	
11b. Y-capacitors(CY1) (Alternate)	JYH CHUNG ELECTRONICS CO LTD (E187963)	JD	Rated minimum 250Vac, maximum 3300 pF. Minimum 85degree C, Y1 type.	FOWX2	UL	
11c. Y-capacitors(CY1) (Alternate)	WELSON INDUSTRIAL CO LTD (E104572)	WD	Rated minimum 250Vac, maximum 3300 pF. Minimum 85degree C, Y1 type.	FOWX2	UL	
11d. Y-capacitors(CY1) (Alternate)	HAOHUA ELECTRONIC CO	CT7	Rated minimum 250Vac, maximum 3300 pF. Minimum	FOWX2	UL	

	(E233106)		85degree C, Y1 type.			
12. Line chock (LF1)	--	--	2.2mH. see ID4-02 for details.	--	--	
12-1. Magnet winding	Interchangeable	Interchangeable	130 degree C.	OBMW2	UL	
13. Line chock (LF2)	--	--	20mH. see ID4-XX for details.	--	--	
13-1. Bobbin	Interchangeable	Interchangeable	Minimum V-1, 130 degree C.	QMFZ2	UL	
13-2. Winding	Interchangeable	Interchangeable	130 degree C.	OBMW2	UL	
13-3. Insulation tape	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD (E165111)	PZ, WF	130 degree C	OANZ2	UL	
13-4.Triple insulated winding	FURUKAWA ELECTRIC CO LTD (E206440)	TEX-E	130 degree C.	OBJT2	UL	
14. X-Capacitor (CX1, CX2)	SHENZHEN SURONG CAPACITORS CO LTD (E314875)	MPX/MKP	Rated minimum 250Vac, maximum 0.47uF. X2 type, minimum 100 degree C.	FOWX2	UL	
14a. X-Capacitor (CX1, CX2) (Alternate)	CARLI ELECTRONICS CO LTD (E120045)	MPX	Rated minimum 250Vac, maximum 0.47uF. X2 type, minimum 100 degree C.	FOWX2	UL,	
14b. X-Capacitor (CX1, CX2) (Alternate)	TENTA ELECTRIC INDUSTRIAL CO LTD (E222911)	MEX	Rated minimum 250Vac, maximum 0.47uF. X2 type, minimum 100 degree C.	FOWX2	UL,	
14c. X-Capacitor (CX1, CX2) (Alternate)	DAIN ELECTRONICS CO LTD (E147776)	MPX	Rated minimum 250Vac, maximum 0.47uF. X2 type, minimum 100 degree C.	FOWX2	UL	
14d. X-Capacitor (CX1, CX2) (Alternate)	CHANGZHOU DEJIE PHOTOELECTRIC TECHNOLOGY CO LTD (E339764)	MPX/MKP	Rated minimum 275Vac, maximum 0.47uF. X2 type, minimum 100 degree C.	FOWX2	UL	
15. Bleeder resistors (RX1, RX2)	Interchangeable	Interchangeable	Each 200k ohm, 1/4W.	--	--	
16. Optical Isolator (U2)	EVERLIGHT ELECTRONICS CO LTD	EL817	Double protection. Rated 110 degree C. Isolation voltage 5000 Vac	FPQU2	UL	

16a. Optical Isolator (U2)(Alternate)	COSMO ELECTRONICS CORP (E169586)	KP1010	Double protection. Rated 110 degree C. Isolation voltage 5000 Vac	FPQU2	UL	
16b. Optical Isolator (U2) (Alternate)	LITE-ON TECHNOLOGY CORP	LTV-817	Double protection. Rated 110 degree C. Isolation voltage 5000 Vac	FPQU2	UL	
16c. Optical Isolator (U2) (Alternate)	SHARP CORP ELECTRONIC COMPONENTS AND DEVICES GROUP	PC123	Double protection. Rated 110 degree C. Isolation voltage 5000 Vac	FPQU2	UL	
17.Label	Interchangeable	Interchangeable	Minimum 80 degree C	PGDQ2 or PGJI2	UL	
18.Output cord	Interchangeable	2464	Min.24 AWG,min.80degree C， min.30V, suitable for external use.	QMFZ2	UL	
19.Mylar sheet between enclosure and heatsink	CHENGDU KANGLONGXIN PLASTICS CO LTD (E315185)	KLX PP BK-10	Minimum V-1, minimum 0.2mm, minimum 105 degree C.	QMFZ2	UL	
20. Insulation tape for heat sink and shield cover	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD (E165111)	PZ	130 degree C	OANZ2	UL	
20a. Insulation tape for heat sink and shield cover (alternate)	3M COMPANY ELECTRICAL MARKETS DIV (EMD)	1350F-1 (b)	130 degree C	OANZ2	UL	
21. Internal Wiring	Interchangeable	Interchangeable	VW-1, Min. 24AWG, Minimum 80 degree C, minimum 300 V.	AVLV2	UL	

Enclosures

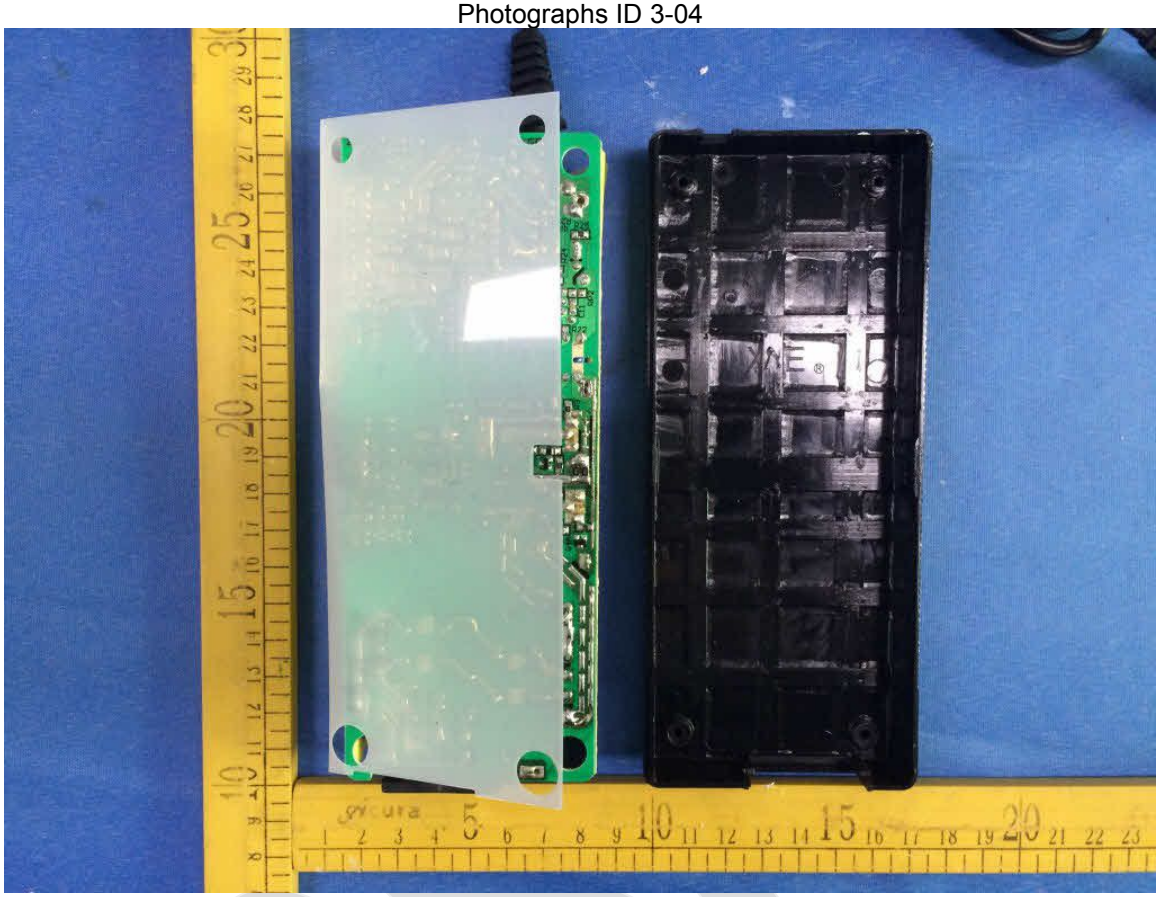
Type	Supplement Id	Description
Photographs	3-01	Overall view 1
Photographs	3-02	Overall view 2
Photographs	3-03	Overall view 3
Photographs	3-04	Internal view 1
Photographs	3-05	Internal view 2
Photographs	3-06	Internal view 3
Photographs	3-07	PCB component view
Photographs	3-08	PCB trace view
Photographs	3-09	Transformer view 1
Photographs	3-10	Transformer view 2
Diagrams	4-01	Transformer T1
Diagrams	4-02	Line Choke (LF1)
Diagrams	4-03	Line Choke (LF2)
Schematics + PWB	5-01	PCB layout
Miscellaneous	7-01	Mylar sheet drawing
Miscellaneous	7-02	Heat sink top
Miscellaneous	7-03	Heat sink bottom
Miscellaneous	7-04	Enclosure
Miscellaneous	7-05	DC cord and strain relief
Test Record	2-01	CRD

Photographs ID 3-01

Photographs ID 3-02

Photographs ID 3-03

Photographs ID 3-04



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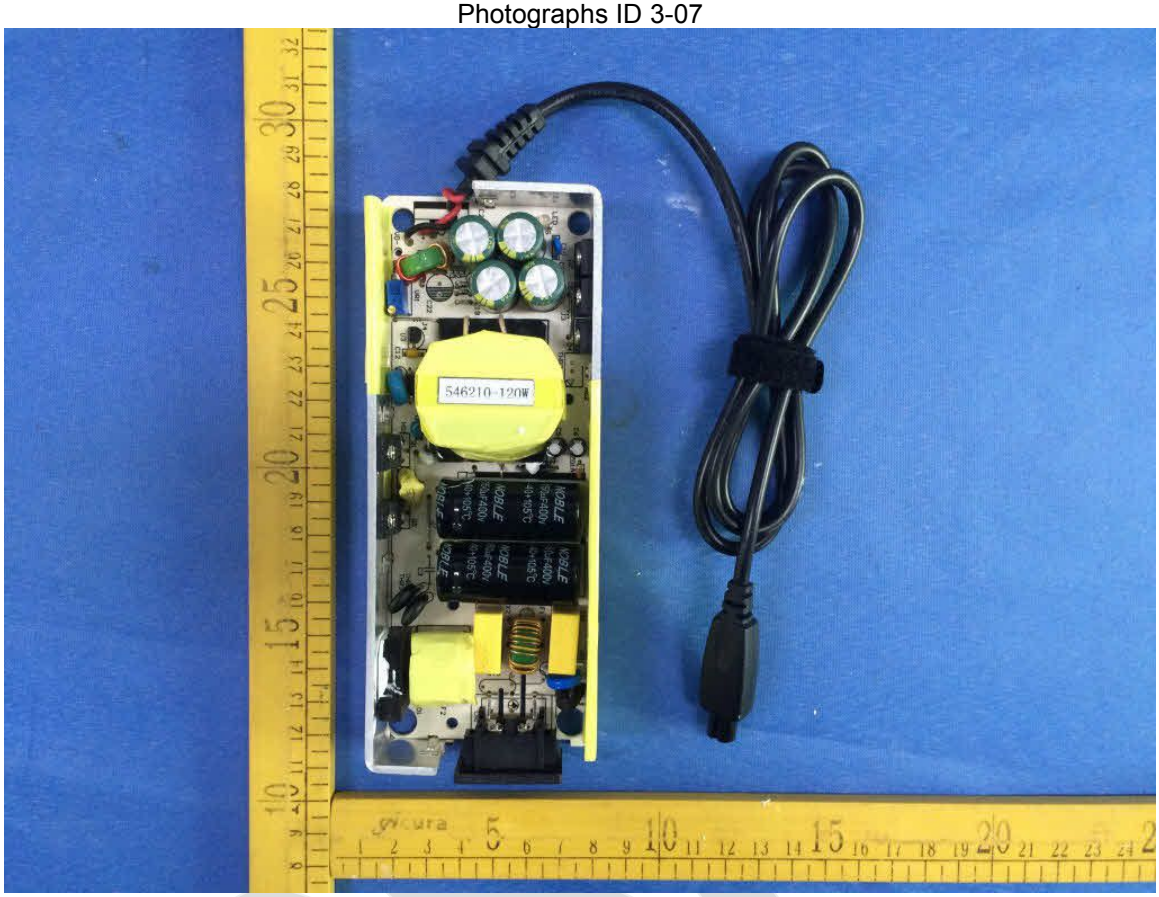
Photographs ID 3-06

Photographs ID 3-07



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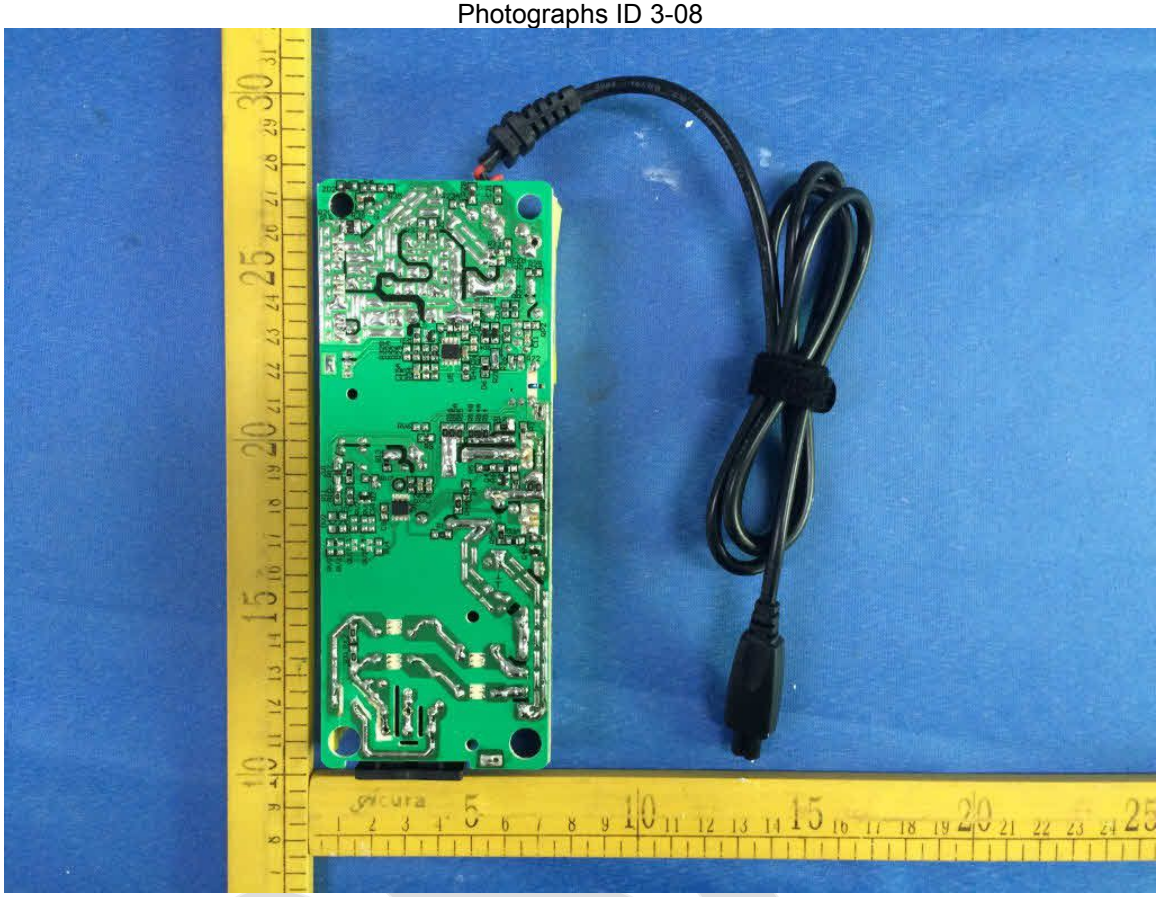

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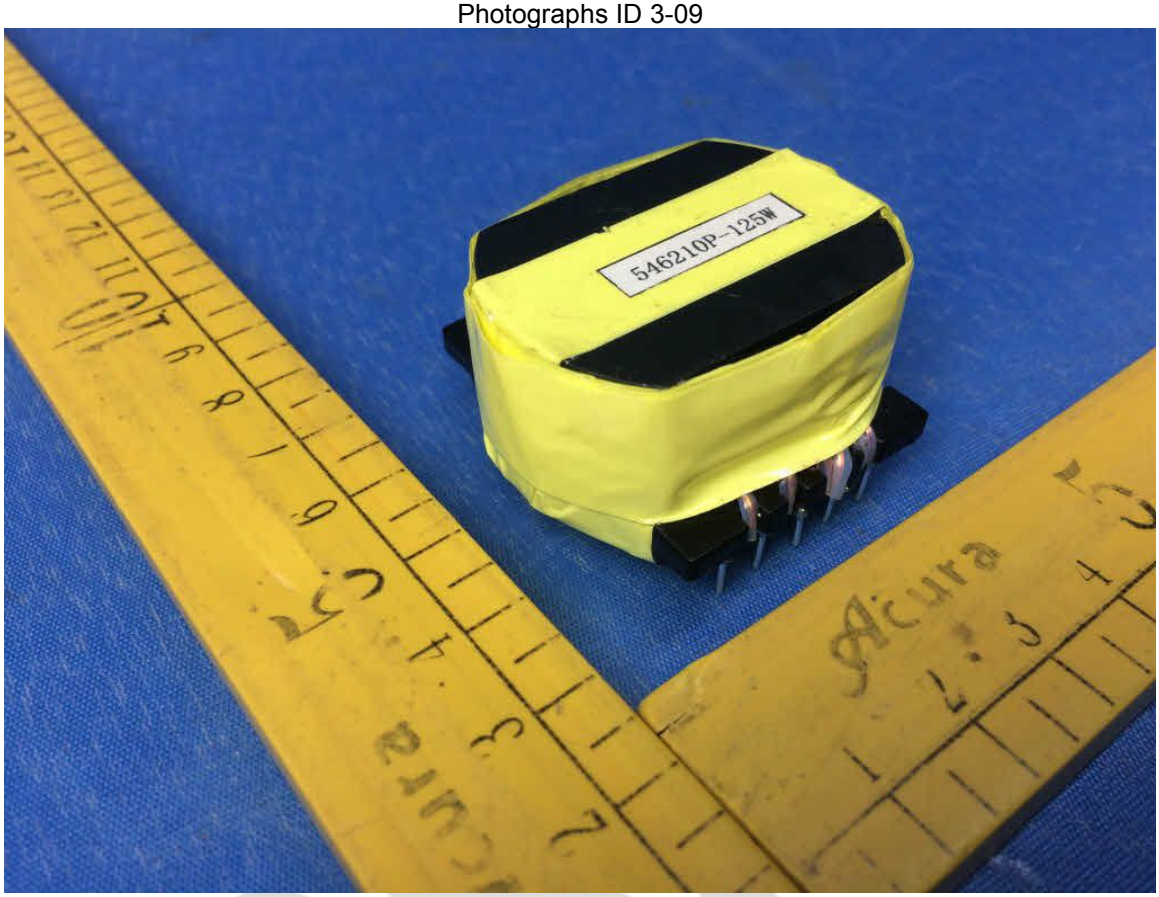

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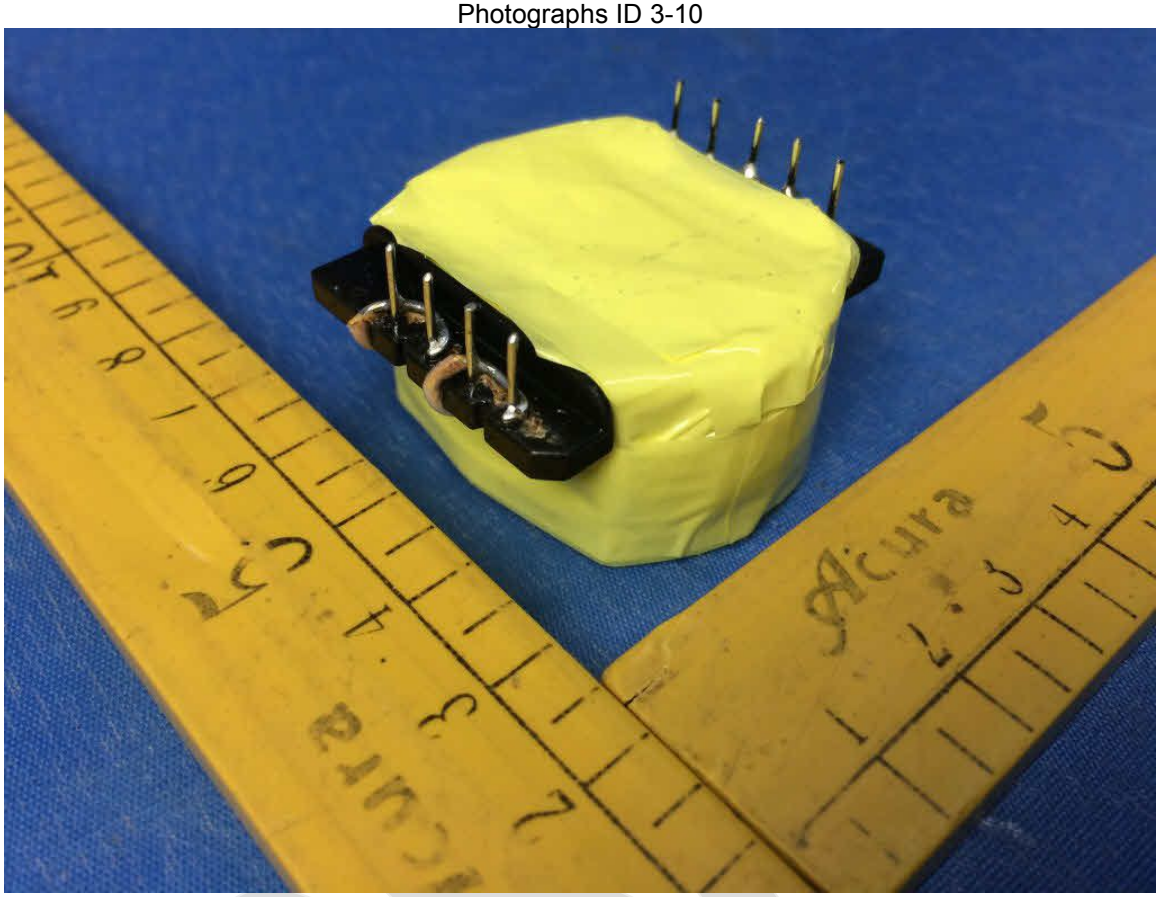

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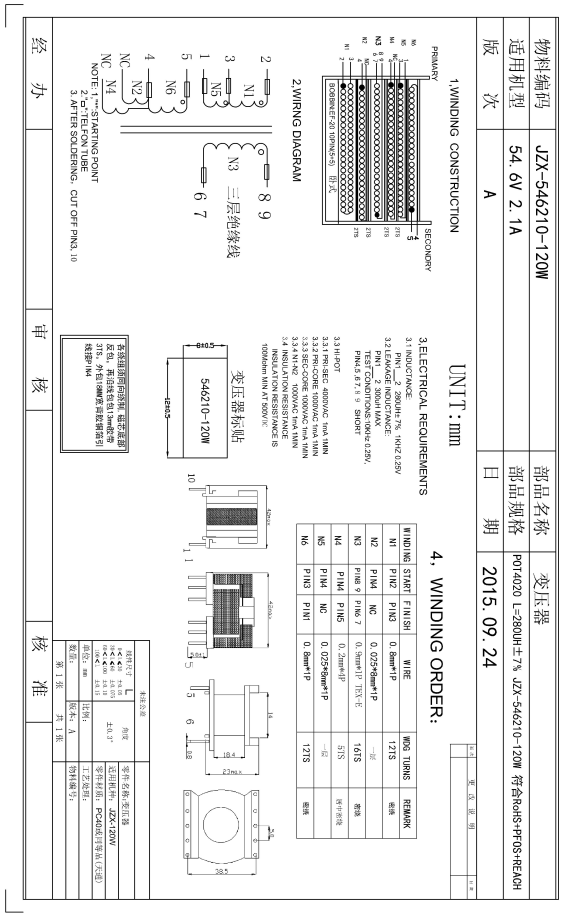


Diagrams ID 4-02

承 认 书

客 户 CUSTOMER:	金正信电源科技有限公司
品 名 ITEM:	磁环
客户料号 YOUR MODEL NO:	T14*8*7
厂内编号 OUR MODEL NO:	YG0136000011
描 述 DESCRIPTION:	
标 准 STANDARD:	
日 期 DATE:	2013-12-27

发行 MADE	检查 CHECKED	确认 APPROVED
杨丽云	徐晓玲	张友
日 期 : 2013-12-27		

贵公司承认印签 CUSTOMERAPPROVED
NOTE: 请 确 认 签 回

东 莞 市 盈 莞 电 子 厂
DONG GUANG GUAN ELECTRONIC FACTORY

地址：广东省东莞市石碣镇刘屋甲塘工业区

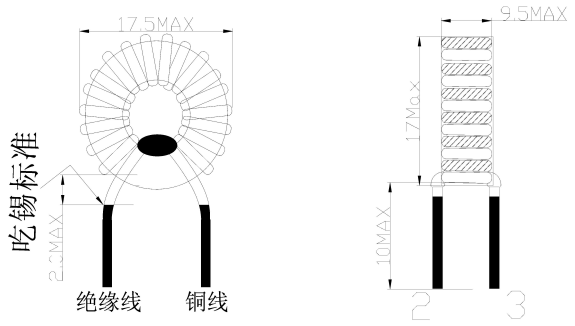
Tel:(86-769) 33262829 FAX: (86-769)8183648

Diagrams ID 4-02

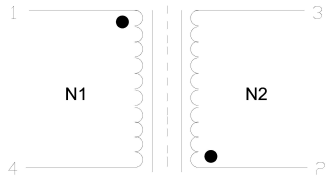
SPECIFICATION FOR APPROVAL

客户代码	YG-136	客户型号		P/N	1
品　　名	YG0136OOOO11	产品规格	T14×8×7	DATE	2011.11.05

1.MECHANICAL & ASSEMBLY(UNT:mm)



2.SCHEMATIC DIAGRAM:



Diagrams ID 4-02

SPECIFICATION FOR APPROVAL

客户代码	YG-136	客户型号		P/N	2	
品　名	YG0136OOOO11	产品规格	T14×8×7	DATE	2011.11.05	

3.技术参数

绕线结构	线包	匝数（T）	线径（mm）	线材	起线	收线	绕线形式	胶带（TS）
	N1	15TS(REF)	Φ0.6*1P	2UEW(N)	1	4	双线并绕	
	N2	15TS(REF)	Φ0.6*1P	TEX-E	2	3		

电气性能	测试项目	测试脚位	数值	单位	公差	测试 条件
	电感	1-4	2.2	mH	Min	1KHz,0.25V
	直流电阻	2-3	2.2	mH	Min	1KHz,0.25V
	绝缘电阻	N1 TO 磁芯		MΩ	MIN	DC 500V
		N1=N2不能大于0.5mH				

4.LIST OF MATERIAL: (OR EQUIVALENT)

NO	ITEM	MATERIAL	SUPPLER	UL FILE NO
A	CORE	FERRITE CORE T14X8X7-C10K	LONG YEAR OR EQUIV	
B	MAGNET WIRE	UEW/U130℃ 2UEW/TEX-E	PACIFIC ELECTRIC FURUKAWA ELECTRIC	E201757 E206440
C	VARNISH	V1630FS	PD	E73071

DRAWN BY	CHECKED BY	APPROVED BY	ISSUE NO	
徐晓玲			DRAW NO	A/O
			TYPE	

Diagrams ID 4-03

中山市飞庭电子厂
ZHONG SHAN SHI FEI TING DIAN ZI CHANG
地址： 中山市东凤镇东富路12号3楼
Tel：0760-22771038 Fax：0760-22771039

[redacted]

规 格 书
SPECIFICATION

客户名称	金正信电源科技有限公司
产品名称	差模电感
客户料号	
产品规格	T18*10*10-20MH
编制日期	2015-11-3

CUSTOMER SIGNATURE:

确认	"√"	客户签章 Customer signature	备注 NOTE
承 认 Full Approved			
部 份 承 认 Conditional Approved			
驳 回 Rejected			

说明：1、要求产品符合欧盟ROHS指令的要求,控制执行值Cd ≤100PPm,Pb,Hg, Cr+6,PBB, PBDE≤1000PPm。

2、若该文件能满足贵司各项要求，请确认回签。

3、我司今后将以该文件的要求为标准，为贵司提供服务。

4、该文件签定后，各方将以此为基准进行生产验收。

APPROVED SIGNATURES:

编制/Draw	审核/Checked	批准/Approved	客户签名 Customer signature	版次/REV
周国庆	龙仲萍	周国林		A.1

Diagrams ID 4-03

中山市飞庭电子厂
ZHONG SHAN SHI FEI TING DIAN ZI CHANG
地址：中山市东凤镇东富路12号3楼
Tel：0760-22771038 Fax：0760-22771039

规格书变更履历

页码/Page 2/4

版别	变更内容及理由	发行日期	发行部门
A1	新订	2015-11-3	工程部

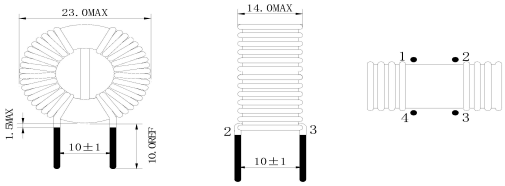
APPROVED SIGNATURES:

編制/Draw	審核/Checked	批准/Approved	客户签名 Customer signature	版次/REV
周国庆	龙仲萍	周国林		A.1

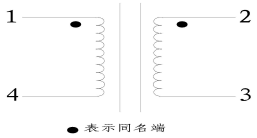
Diagrams ID 4-03

中山市飞庭电子厂
ZHONG SHAN SHI FEI TING DIAN ZI CHANG
地址：中山市东风镇东富路12号3楼
Tel：0760-22771038 Fax：0760-22771039

1、外观尺寸/Appearance size(UNIT:mm):



2、原理图/ Schematic:



3、绕线结构表/Coiling structure:

绕组	线材	匝数	相位		绕制方式	胶带
N1	2UEW Φ0.55mm*1P	43TS (REF)	1	4	密绕	/
N2	2UEW Φ0.55mm*1P	43TS (REF)	2	3	密绕	

工艺说明：

1：电感使用T18*10*10 绿色 喷涂

2：线圈以电感量为准，匝数仅作参考。

APPROVED SIGNATURES:

编制/Draw	审核/Checked	批准/Approved	客户签名 Customer signature	版次/REV
周国庆	龙仲萍	周国标		A.1

Diagrams ID 4-03

中山市飞庭电子厂
ZHONG SHAN SHI FEI TING DIAN ZI CHANG
地址：中山市东风镇东富路12号3楼
Tel：0760-22771038 Fax：0760-22771039

4、电气特性/Electrical characteristics：

项目 Item	测试点 Test points	规格范围 Norms&Range	测试条件 Test conditions	测试仪器 Test instrument
电感量	L1-4	20MH以上	1KHz/0.3V	TH2811D
	L2-3	20MH以上		
直流低电阻			at25℃60±5%RH	MG2512D
	R	mΩMAX		
耐压				
	S—P	/	1mA/60S/50Hz	YD2672A HI-POT METER
	S、P—C	/	1mA/60S/50Hz	YD2672A HI-POT METER
绝缘电阻	S—P	/		
	S、P—C			

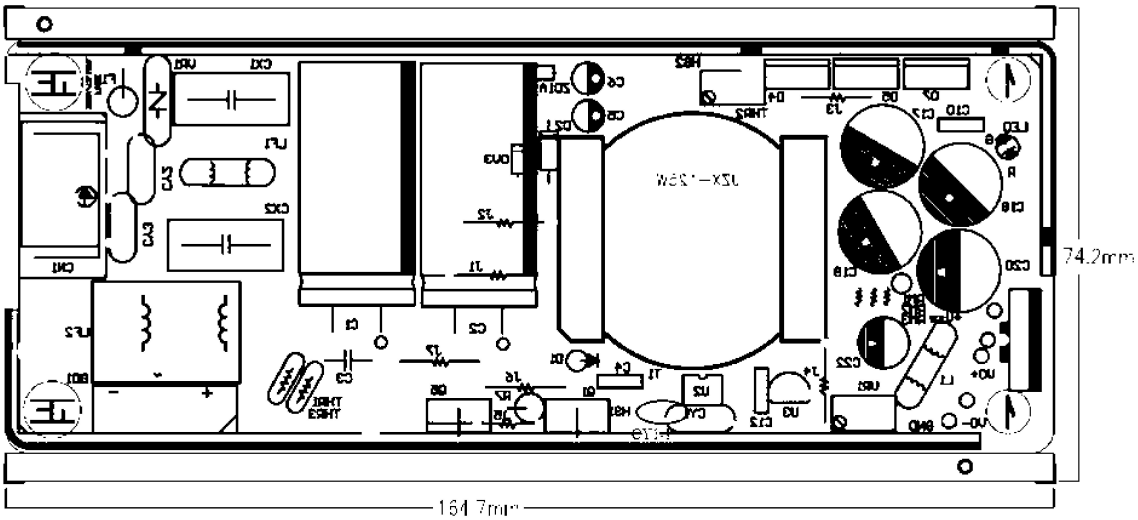
5、材料表/Material List：

NO	品名 PART NAME	型号 type	规 格 & 材 质 SPECIFICATIONMATERIAL	SPEC ℃	SPEC UL-94	认证号 approved	供应商 MANUFAACTURER
1	磁芯	T18*10*10	锰芯材质				科达
2	铜线	2UEW	Φ0.55mm	155	/	E171082	恒辉
3	环氧板			130	V-0	E123995	
4	AB胶	TH100A/B			V-0	E257593	东莞天环

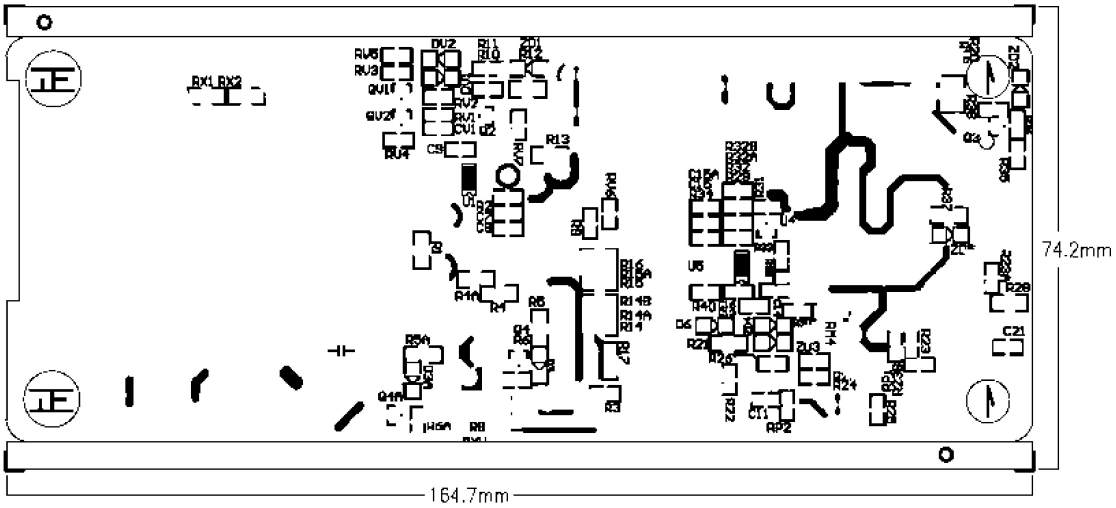
APPROVED SIGNATURES:

編制/Draw	審核/Checked	批准/Approved	客户签名 Customer signature	版次/REV
周国庆	龙仲萍	周国栋		A.1

Schematics + PWB ID 5-01



Schematics + PWB ID 5-01



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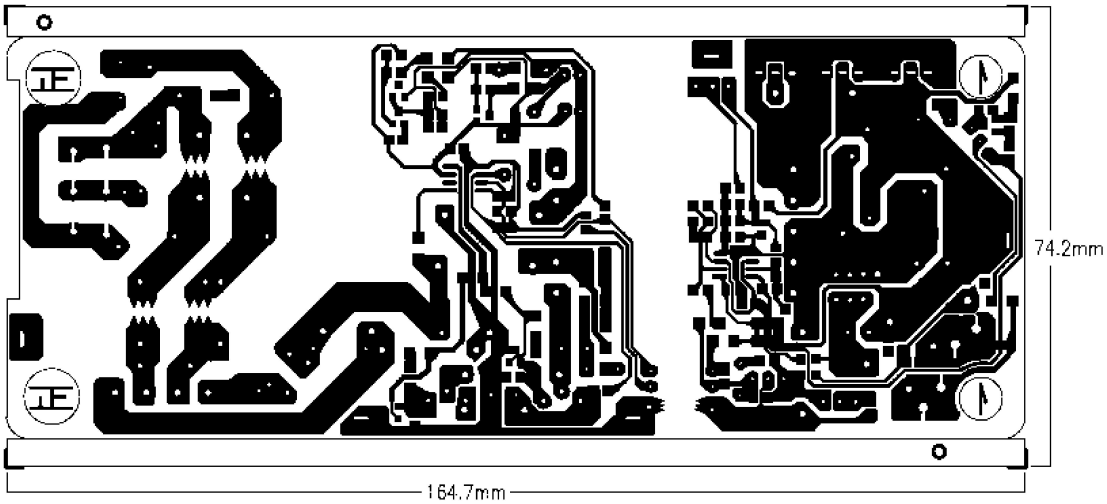
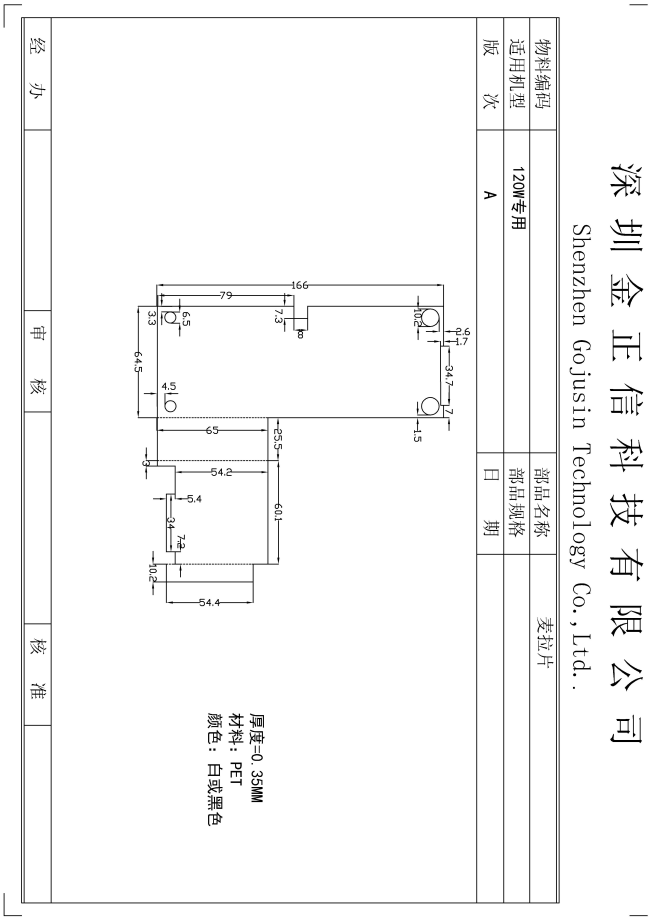


Miscellaneous ID 7-01



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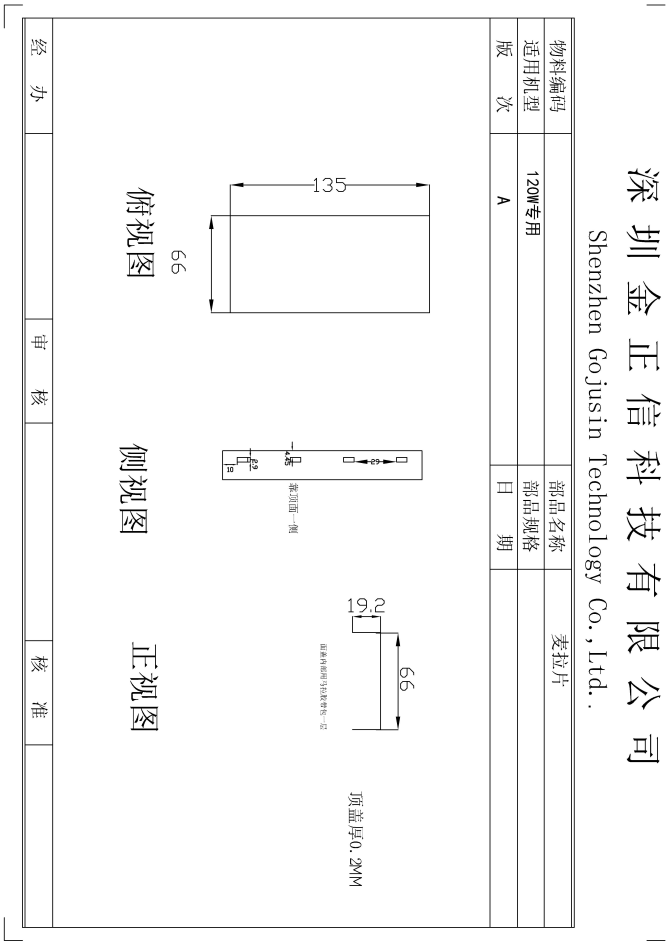

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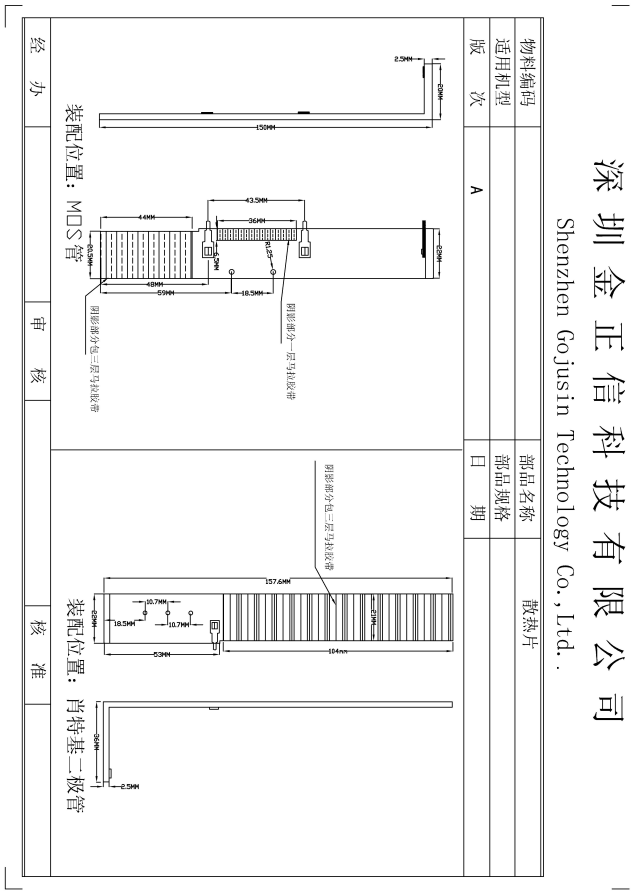

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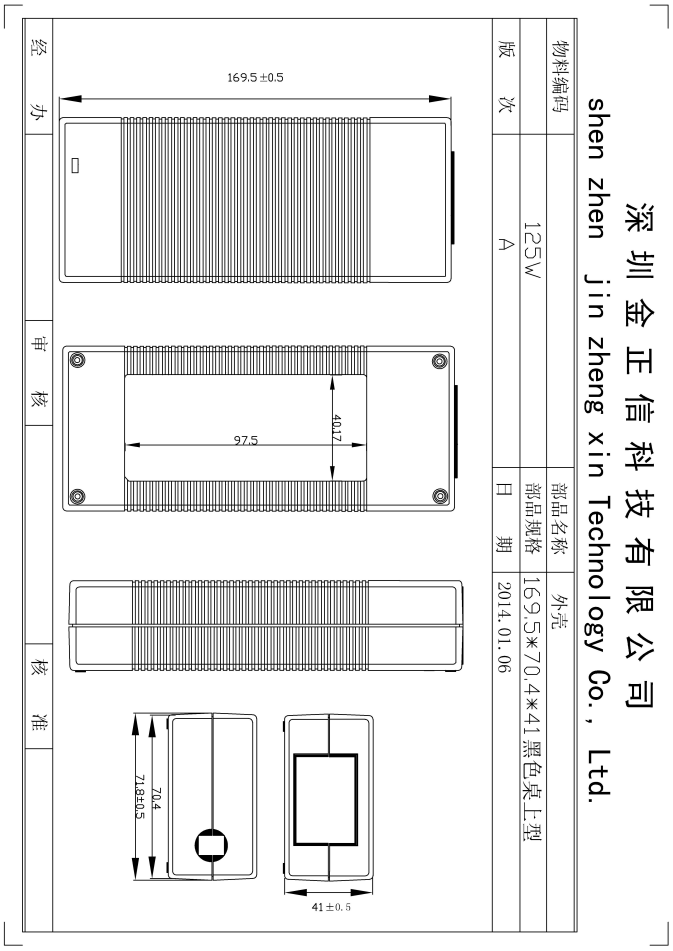

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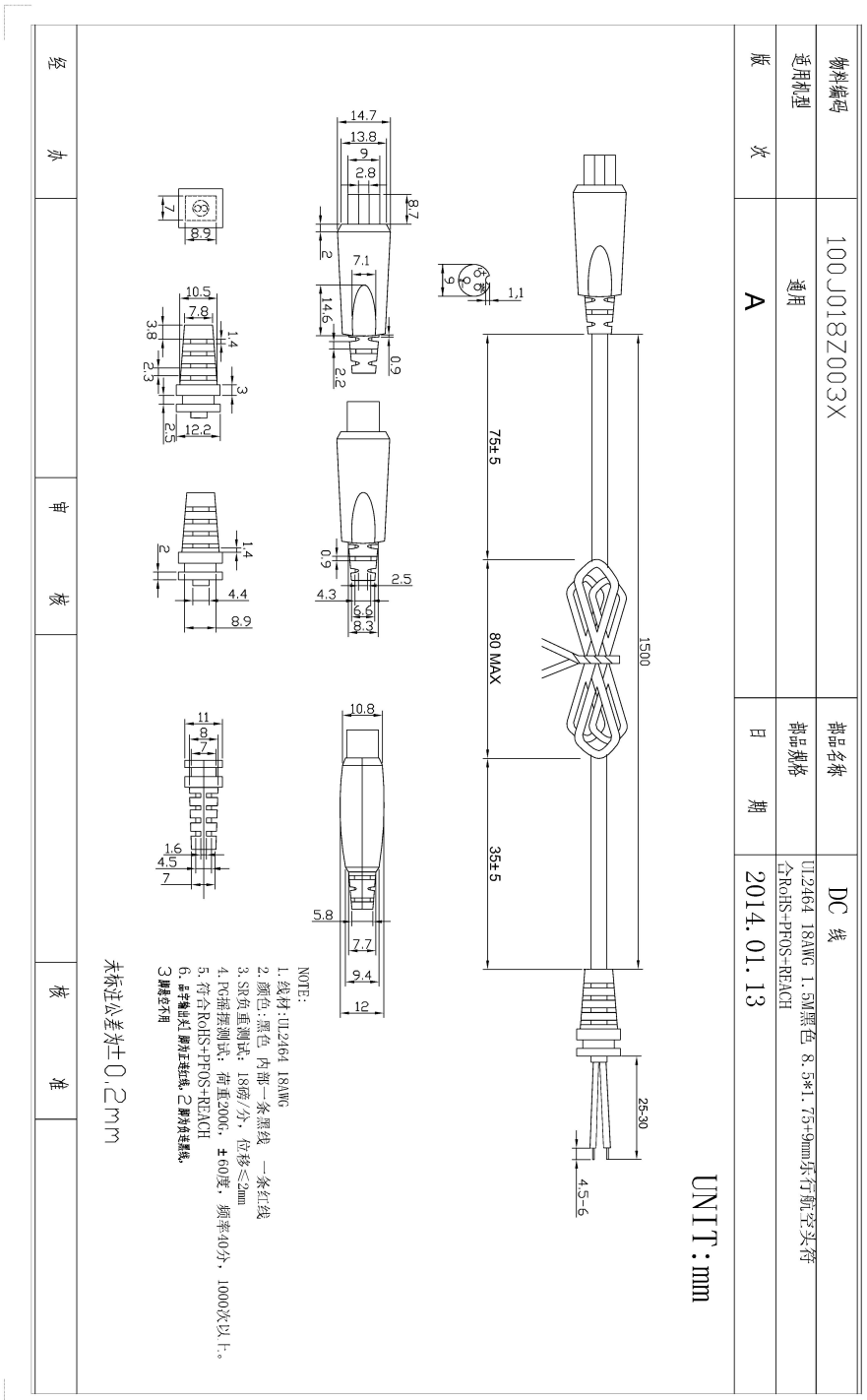

Test Record No. 1

-- Unless otherwise indicated, all tests were conducted in Shenzhen NTEK Testing Technology Co., Ltd. 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen P.R. China, under WTDP.

-- Unless otherwise indicated, all tests were conducted on AC/DC Charger
, Models GJS150-4202380, GJS150-5801724 and GJS150-5002000.

-- Tests performed on Models GJS150-4202380, GJS150-5801724 and GJS150-5002000 were considered to be representative of model

-- Test results relate only to the items tested.

-- Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL.
The following tests were conducted:

Test	Testing Location/Comments
End Product Reference Page	
General Guidelines	
Power Supply Reference Page	
Input: Single-Phase (1.6.2)	
Energy Hazard Measurements (2.1.1.5, 2.1.2, 1.2.8.10)	
Capacitance Discharge (2.1.1.7)	
SELV Reliability Test Including Hazardous Voltage Measurements (2.2.2, 2.2.3, 2.2.4, Part 22 6.1)	
Limited Current Circuit Measurement (2.4.1, 2.4.2)	
Humidity (2.9.1, 2.9.2, 5.2.2)	
Determination of Working Voltage; Working Voltage Measurement (2.10.2)	
Strain Relief (3.2.6, 4.2.1, 4.2.7)	
Steady Force (4.2.1 - 4.2.4)	
Drop (4.2.6, 4.2.1)	
Stress Relief (4.2.7, 4.2.1)	
Heating (4.5.1, 1.4.12, 1.4.13)	
Touch Current (Single-Phase; TN/TT System) (5.1, Annex D)	
Electric Strength (5.2.2)	
Component Failure (5.3.1, 5.3.4, 5.3.7)	
Transformer Abnormal Operation (5.3.3, 5.3.7b, Annex C.1)	

Power Supply Output Short-Circuit/Overload (5.3.7)	

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

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
Attachment	2-01	CRD