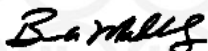


CERTIFICATE OF COMPLIANCE

Certificate Number 20151217-E150716
Report Reference E150716-A57-UL
Issue Date 2015-DECEMBER-17

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

SWITCHING ADAPTER, SYS1561-0105, SYS1561-0205, SYS1561-0305, SYS1561-0405, SYS1561-0505, SYS1561-0605, SYS1561-0705, SYS1561-0805, SYS1561-0905, SYS1561-1005, SYS1561-1105, SYS1561-1105-1, SYS1561-0105-2, SYS1561-0205-2, SYS1561-0305-2, SYS1561-0405-2, SYS1561-0505-2, SYS1561-0605-2, SYS1561-0705-2, SYS1561-0805-2, SYS1561-0905-2, SYS1561-1005-2, SYS1561-0106, SYS1561-0206, SYS1561-0306, SYS1561-0406, SYS1561-0506, SYS1561-0606, SYS1561-0706, SYS1561-0806, SYS1561-0906, SYS1561-1006, SYS1561-0112, SYS1561-0212, SYS1561-0312, SYS1561-0412, SYS1561-0512, SYS1561-0612, SYS1561-0712, SYS1561-0812, SYS1561-0912, SYS1561-1012, SYS1561-1112, SYS1561-1212



Bruce Mahrenholz, Director North American Certification Program

UL LLC

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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:	SWITCHING ADAPTER
Model:	SYS1561-0105, SYS1561-0205, SYS1561-0305, SYS1561-0405, SYS1561-0505, SYS1561-0605, SYS1561-0705, SYS1561-0805, SYS1561-0905, SYS1561-1005, SYS1561-1105, SYS1561-1105-1, SYS1561-0105-2, SYS1561-0205-2, SYS1561-0305-2, SYS1561-0405-2, SYS1561-0505-2, SYS1561-0605-2, SYS1561-0705-2, SYS1561-0805-2, SYS1561-0905-2, SYS1561-1005-2, SYS1561-0106, SYS1561-0206, SYS1561-0306, SYS1561-0406, SYS1561-0506, SYS1561-0606, SYS1561-0706, SYS1561-0806, SYS1561-0906, SYS1561-1006, SYS1561-0112, SYS1561-0212, SYS1561-0312, SYS1561-0412, SYS1561-0512, SYS1561-0612, SYS1561-0712, SYS1561-0812, SYS1561-0912, SYS1561-1012, SYS1561-1112, SYS1561-1212
Rating:	Input: 100-240V~, 1.0A Max., 50-60Hz Output: 5-12 Vdc, 0.2 - 2.1 A see supplement ID 7-02 for detail
Applicant Name and Address:	SUNNY ELECTRONICS CORP 1ST FL 2 LANE 115, SEC 2 JUNG YANG RD TUCHENG NEW TAIPEI 236 TAIWAN

This is to certify that representative samples of the products covered by this Test Report have been investigated in accordance with the above referenced Standards. The products have been found to comply with the requirements covering the category and the products are judged to be eligible for Follow-Up Service under the indicated Test Procedure. The manufacturer is authorized to use the UL Mark on such products which comply with this Test Report and any other applicable requirements of UL LLC ('UL') in accordance with the Follow-Up Service Agreement. Only those products which properly bear the UL Mark are considered as being covered by UL's Follow-Up Service under the indicated Test Procedure.

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

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

Prepared by: Brian Wong

Reviewed by: Steve Chiu

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

The product is a Class II switching power supply for use with Information Technology Equipment (ITE). All live parts are enclosed in a thermoplastic enclosure, provided with parallel blades for direct plug in and connect to the mains.

Model Differences

All models are the same except for model names and output current rating.

Technical Considerations

- Equipment mobility : direct plug-in
- 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% (Manufacturer declared)
- 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 A
- Pollution degree (PD) : PD 2
- IP protection class : IP X0
- Altitude of operation (m) : 3000 m
- Altitude of test laboratory (m) : Less than 2000 m
- Mass of equipment (kg) : 0.076
- The product was submitted and evaluated for use at the maximum ambient temperature (Tma) permitted by the manufacturer's specification of: 40°C
- The means of connection to the mains supply is: Pluggable A (Direct Plug-In)
- The product is intended for use on the following power systems: TN
- The equipment disconnect device is considered to be: Plug

- The product was investigated to the following additional standards: The unit was evaluated to the maximum acceptable moment, center of gravity, dimensions and weight of the unit in accordance with UL 1310 and CSA C22.2 No. 223. , The blade configuration has been evaluated and found compliant with Standard for Wiring Devices- Dimensional Specifications, ANSI/NEMA WD6., This equipment has evaluated to be operated under altitude up to 3,000 m, so the clearance is multiplied by the altitude correction factors(1.14), specified in table A.2 of IEC 60664-1: 1992 + A1: 2000 + A2: 2002
- The following accessible locations (with circuit/schematic designation) are within a limited current circuit: CY1
- The following circuit locations (with circuit/schematic designation) were investigated as a limited power source (LPS): Output terminal
- The following are available from the Applicant upon request: Installation (Safety) Instructions / Manual

Additional Information

N/A

Additional Standards

The product fulfills the requirements of: N/A

Markings and instructions

Clause Title	Marking or Instruction Details
Power rating - Ratings	Ratings (voltage, frequency/dc, current)
Power rating - Class II symbol	Symbol for Class II construction  (60417-2-IEC-5172)
Power rating - Model	Model Number
Power rating - Company identification	Listee's or Recognized company's name, Trade Name, Trademark or File Number
Fuses - Rating	Rated current and voltage and type located on or adjacent to fuse or fuseholder.
Output Marking	"LPS" or "Limited Power Source" - Optional

Special Instructions to UL Representative

Inspect the transformer(s) 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-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
N/A						

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

All models covered 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:

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
01. Label	Interchangeable	Interchangeable	Minimum 65 degree C. Suitable for its application surface.	PGDQ2, PGJI2	UL	
02. Enclosure	Sabic Japan L L C	945 (GG)	Rated V-0, 120 degree C. Minimum 1.5 mm thickness. Two parts secured together by ultrasonic welding. See supplementary 7-01 for details.	QMFZ2	UL E207780	
02a. Enclosure (Alternate)	Sabic Japan L L C	SE1	Rated V-1, 105 degree C. Minimum 1.5 mm thickness. Two parts secured together by ultrasonic welding. See supplementary 7-01 for details.	QMFZ2	UL E207780	
03.Plug holder	Sabic Japan L L C	945 (GG)	Rated V-0, 120 degree C. Minimum 1.5 mm thickness.	QMFZ2	UL E207780	
03a.Plug holder	Sabic Japan L L C	SE1	Rated V-1, 105 degree C. Minimum 1.5 mm thickness.	QMFZ2	UL E207780	
04. Input Blades	--	--	Non-polarized, solid copper or copper alloy, integrally molded on Enclosure. From any point of either blade to the edge of enclosure at the plug face section is spaced minimum 5.1 mm. See supplement 7-05 for details.	--	--	
05. PCB	Interchangeable	Interchangeable	V-1 or better, minimum 130 degree C.	ZPMV2	UL	
06. Fuse (F2)	Interchangeable	Interchangeable	1.0A, 250Vac	JDYX	UL	
06a. Fuse (F2) (Alternate)	Cooper Bussmann Inc	SS-5	1.0A, 250Vac	JDYX2	UL E19180	
06b. Fuse (F2) (Alternate)	Conquer Electronics Co Ltd	MST	1.0A, 250Vac	JDYX2	UL E82636	
06c. Fuse (F2) (Alternate)	Ever Island Electric Co Ltd & Walter	2010	1.0A, 250Vac	JDYX2	UL E220181	

	Electric					
06d. Fuse (F2) (Alternate)	Xc Electronics (Shenzhen) Corp Ltd	5TE	1.0A, 250Vac	JDYX	UL E249609	
07.Fuse (F1) (Optional together with Varistor VAR1)	Interchangeable	Interchangeable	6.3A, 250Vac	JDYX	UL	
07a.Fuse (F1) (Optional together with Varistor VAR1)	Cooper Bussmann Inc	SS-5	6.3A, 250Vac	JDYX2	UL E19180	
07b.Fuse (F1) (Optional together with Varistor VAR1) (Alternate)	Conquer Electronics Co Ltd	MST	6.3A, 250Vac	JDYX2	UL E82636	
07c.Fuse (F1) (Optional together with Varistor VAR1) (Alternate)	Ever Island Electric Co Ltd & Walter Electric	2010	6.3A, 250Vac	JDYX2	UL E220181	
07d.Fuse (F1) (Optional together with Varistor VAR1) (Alternate)	Xc Electronics (Shenzhen) Corp Ltd	5TE	6.3A, 250Vac	JDYX	UL E249609	
07e.Fuse (F1) (Optional together with Varistor VAR1) (Alternate)	Walter Electronic Co Ltd	ICP	6.3A, 250Vac	JDYX	UL E56092	
08.Varistor (VAR1) (Optional together with Fuse F1)	Joyin Co Ltd	10S471K, 14S471K, 14N471K	Minimum 300V, coating minimum V-1	VZCA2	UL E325508	
08a.Varistor (VAR1) (Optional together with Fuse F1) (Alternate)	Centra Science Corp	CNR-14D471K	Minimum 300V, coating minimum V-1	VZCA2	UL E316325	
08b.Varistor (VAR1) (Optional together with Fuse F1)	Cerglass MFG Inc.	10D471K, 14D471K	Minimum 300V, coating minimum V-1	VZCA2	UL E317616	

(Alternate)						
08c.Varistor (VAR1) (Optional together with Fuse F1) (Alternate)	Lien Shun Electronics Co., Ltd.	10D471K 14D471K	Minimum 300V, coating minimum V-1	VZCA2	UL E315524	
08d.Varistor (VAR1) (Optional together with Fuse F1) (Alternate)	Shantou High- New Technology Development Zone Songtian Enterprise Co Ltd	10D471K 14D471K	Minimum 300V, coating minimum V-1	VZCA2	UL E330837	
09.Line Filter (LF1) (Optional)	--	--	Minimum 130 degree C. See supplement 4-03 for detail.	--	--	
09-01. Core	--	--	Ferrite core, Overall dia. Approx.9.0mm*8.6mm*3.8mm	--	--	
09-02. Coil	Interchangeable	Interchangeable	Minimum 130 degree C	OBMW2	UL	
09-03. Bobbin	Sumitomo Bakelite Co Ltd	PM-9820	Phenolic, V-0, minimum 0.51 mm thick, 150 degree C.	QMFZ2	UL E41429	
09-04. Insulation Tape	3M Company Electrical Markets Div (Emd)	1350-1(b)	Minimum 130 degree C	OANZ2	UL E17385	
10.Bridge diode (BD1)	--	--	Minimum 0.5A , Minimum 400V	--	--	
11.Ripple Capacitor (C1,C2)	--	--	4.7-10uF, minimum 400V, 105 degree C.	--	--	
12.Transistor (Q1)	--	--	Minimum 0.5A , minimum 400V	--	--	
13. Current sensor resistor(R6, R7)	--	--	Each minimum 1.2 ohm, minimum 1/4W;	--	--	
14.Line Filter (L1) (Optional)	--	--	Minimum 130 degree C. See supplement 4-04 for detail.	--	--	
14-01. Coil	Interchangeable	Interchangeable	Minimum 130 degree C	OBMW2	UL	
14-02. Heater-shrinkable tube	Interchangeable	Interchangeable	VW-1, minimum 300V, minimum 125 degree C.	YDPU2	UL	
15. Y-Capacitor (CY1) (Optional)	Tdk-Epc Corp	CD	Maximum 2200pF, minimum 250 V, Y1 type, 125 degree C, located between primary and secondary	FOWX2	UL E37861	
15a. Y-Capacitor (CY1) (Optional) (Alternate)	Welson Industrial Co Ltd	WD	Maximum 2200pF, minimum 250 V, Y1 type, 125 degree C,	FOWX2	UL E104572	

			located between primary and secondary			
15b. Y-Capacitor (CY1) (Optional) (Alternate)	Shantou High-New Technology Development Zone Songtian Enterprise Co Ltd	CD	Maximum 2200pF, minimum 250 V, Y1 type, 125 degree C, located between primary and secondary	FOWX2	UL E208107	
15c. Y-Capacitor (CY1) (Optional) (Alternate)	Zhi Wei Electronics Co., Ltd.	DJ-Series	Maximum 2200pF, minimum 250 V, Y1 type, 125 degree C, located between primary and secondary	FOWX2	UL E330260	
15d. Y-Capacitor (CY1) (Optional) (Alternate)	Haohua Electronic Co.	CT 7	Maximum 2200pF, minimum 250 V, Y1 type, 125 degree C, located between primary and secondary	FOWX2	UL E233106	
15e. Y-Capacitor (CY1) (Optional) (Alternate)	Yinan Don's Electronic Component Co., Ltd.	CT 81	Maximum 2200pF, minimum 250 V, Y1 type, 125 degree C, located between primary and secondary	FOWX2	UL E145038	
16.Output cord	Interchangeable	Interchangeable	Minimum 24 AWG, minimum 30 V, minimum 80 degree C, marked VW-1 or FT-1, maximum 3.05m in length outside enclosure, maximum 20 mm inside enclosure, terminals were inserted through hole first, then soldered to PWB	AVLV2	UL	
17.Strain relief of output cord	Interchangeable	Interchangeable	V-1 or better, see enclosure ID7-04 for details	QMFZ2	UL	
18.USB Output Socket	Interchangeable	Interchangeable	(SELV, LPS) Secured and soldered to PWB. Plastic part (QMFZ2) rated minimum V-2.	QMFZ2	UL	
19. Glue	Interchangeable	Interchangeable	Minimum V-2	QMFZ2	UL	
20. Transformer (T1)	Sunny Electronics Corp	1) 04B489 (for output voltage 5V, 5.35V, 5.9V, 6V) 2) 04B494 (for	Class B. See supplement 4-01, 4-02 for details.	--	--	

		output voltage (12.0V)				
20-01. Insulation system	Sunny Electronics Corp	DASH 2 B-19	Class B	OBJY2	UL E183163	
20-02. Bobbin	Sumitomo Bakelite Co Ltd	PM-9820	Phenolic, V-0, Minimum 0.51mm thick, 150 degree C.	QMFZ2	UL E41429	
20-03. Core	--	--	Ferrite, two pieces provided. Overall approx. 18.0mm by 12.8 mm by 10.4mm.	--	--	
20-04. Insulation Tape	3M Company Electrical Markets Div (Emd)	1350-1(b)	Rated 130 degree C	OANZ2	UL E17385	
20-05. Triple insulated wire	Furukawa Electric Co Ltd	TEX-E	130 degree C.	OBJT2	UL E206440	
20-06. Magnet Wire	Interchangeable	Interchangeable	Minimum 130 degree C, MW28, MW75, MW75-C, MW79, MW80, MW82, MW83	OBMW2	UL E225143	
20-07. Teflon Tube	Fluo Tech Industries Co Ltd	TFT	200 degree C, 600 V. VW-1.	YDPU2	UL E175982	
20-08. Varnish	Elantas Electrical Insulation Elantas Pdg Inc	468-2(d), 468-2FC(d)	130 degree C	OBOR2	UL E75225	
21. Insulation sheet between AC pin and PCB	Itw Electronics Components/ Products (Shanghai) Co Ltd	FORMEX GK-(a)(b)(f2)	V-2 or better, minimum 0.4mm, 115 degree C. See enclosure ID7-03 for dimension	QMFZ2	UL E256266	
21a. Insulation sheet between AC pin and PCB	Formex, Div Of Illinois Tool Works Inc, Formerly	FORMEX GK-(a)(b)(f2)	V-2 or better, minimum 0.4mm, 115 degree C. See enclosure ID7-03 for dimension	QMFZ2	UL E121855	

Enclosures

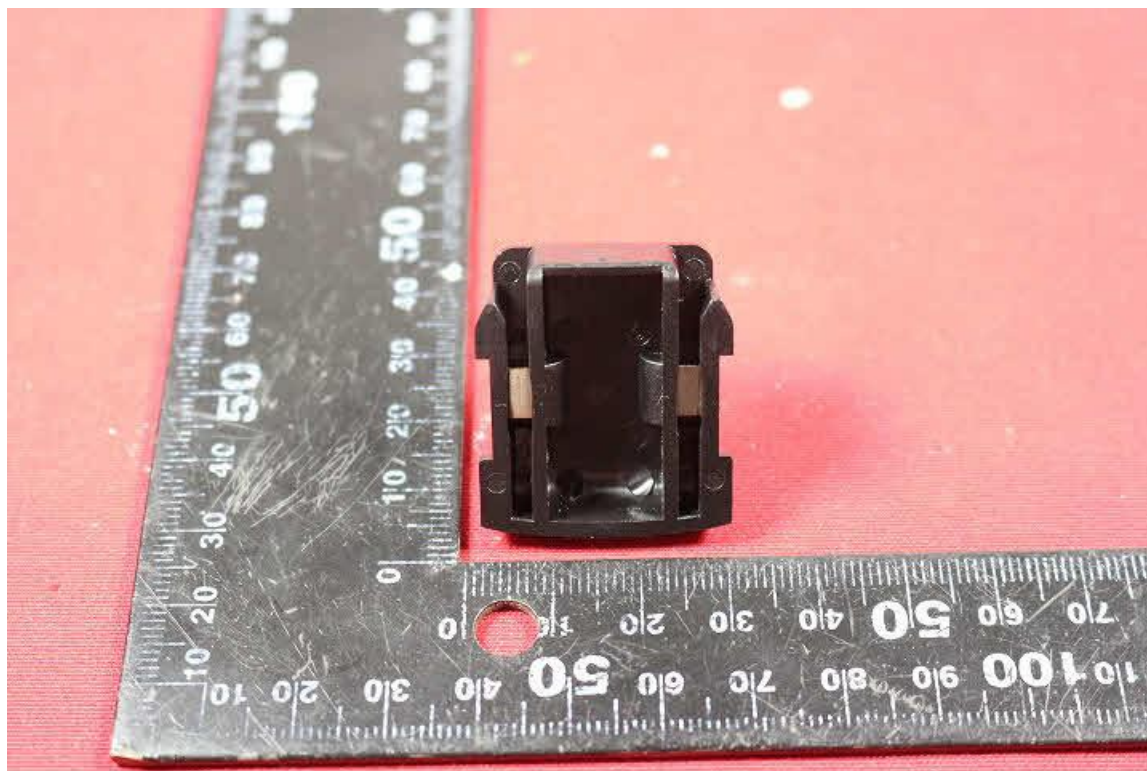
<u>Type</u>	<u>Supplement Id</u>	<u>Description</u>
Photographs	3-01	Overall View of Model SYS1561 series
Photographs	3-02	Overall View of Model SYS1561 series
Photographs	3-03	Overall View of Model SYS1561 series
Photographs	3-04	Overall View of Model SYS1561 series
Photographs	3-05	Overall View of detachable plug
Photographs	3-06	Internal View of Model SYS1561 series
Photographs	3-07	Top View of PWB
Photographs	3-08	Top View of PWB with alternate cap
Photographs	3-09	Bottom View of PWB
Photographs	3-10	Internal View of insulator
Diagrams	4-01	Specification of Transformer Type 04B489
Diagrams	4-02	Specification of Transformer 04B494
Diagrams	4-03	Specification of Inductor LF1
Diagrams	4-04	Specification of Inductor L1
Schematics + PWB	5-01	PCB Layout
Schematics + PWB	5-02	Schematic
Miscellaneous	7-01	Dimension drawing of enclosure
Miscellaneous	7-02	Model list
Miscellaneous	7-03	Dimension drawing of insulation sheet
Miscellaneous	7-04	Dimension drawing of strain relief
Miscellaneous	7-05	Dimension drawing of AC plug





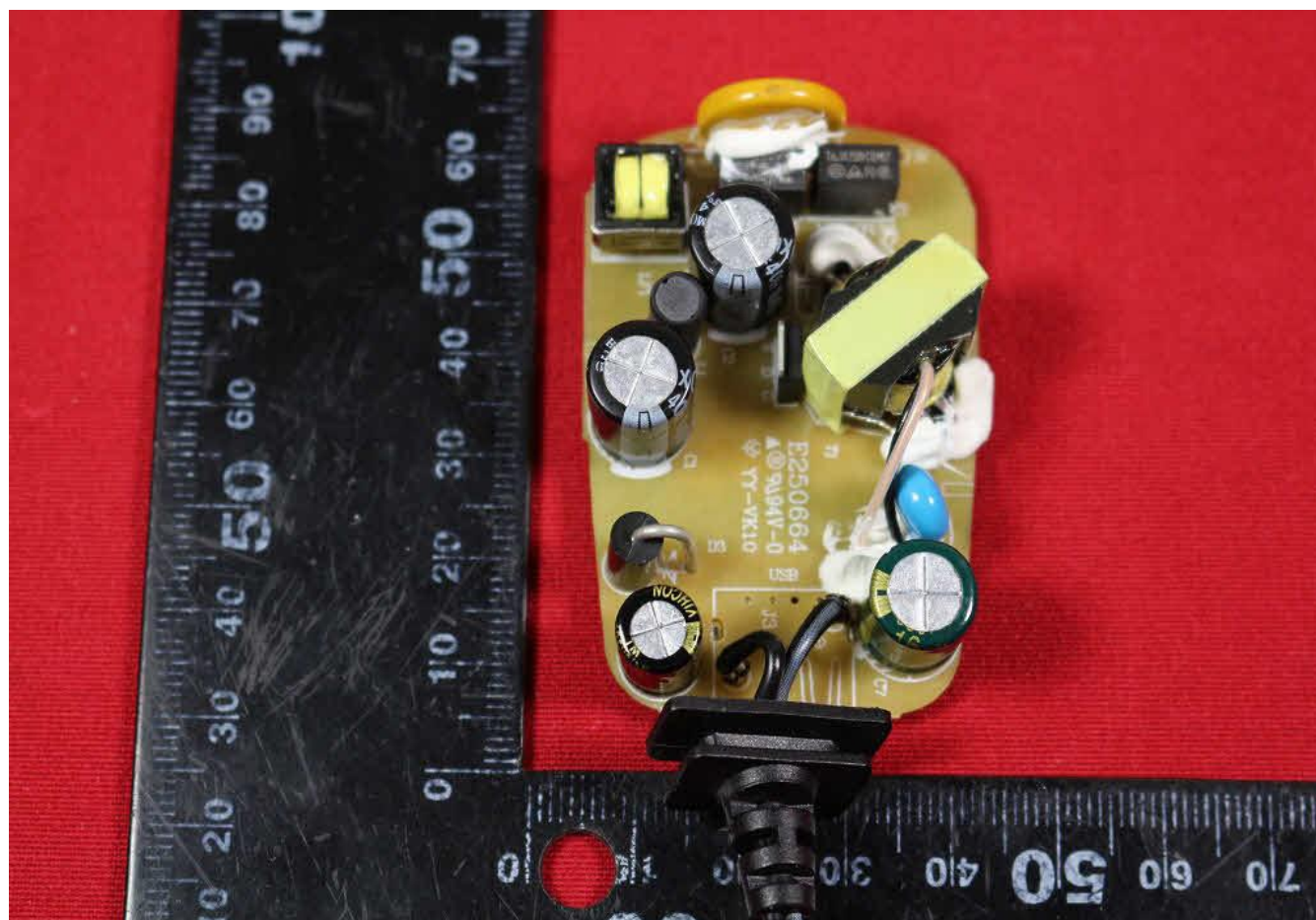


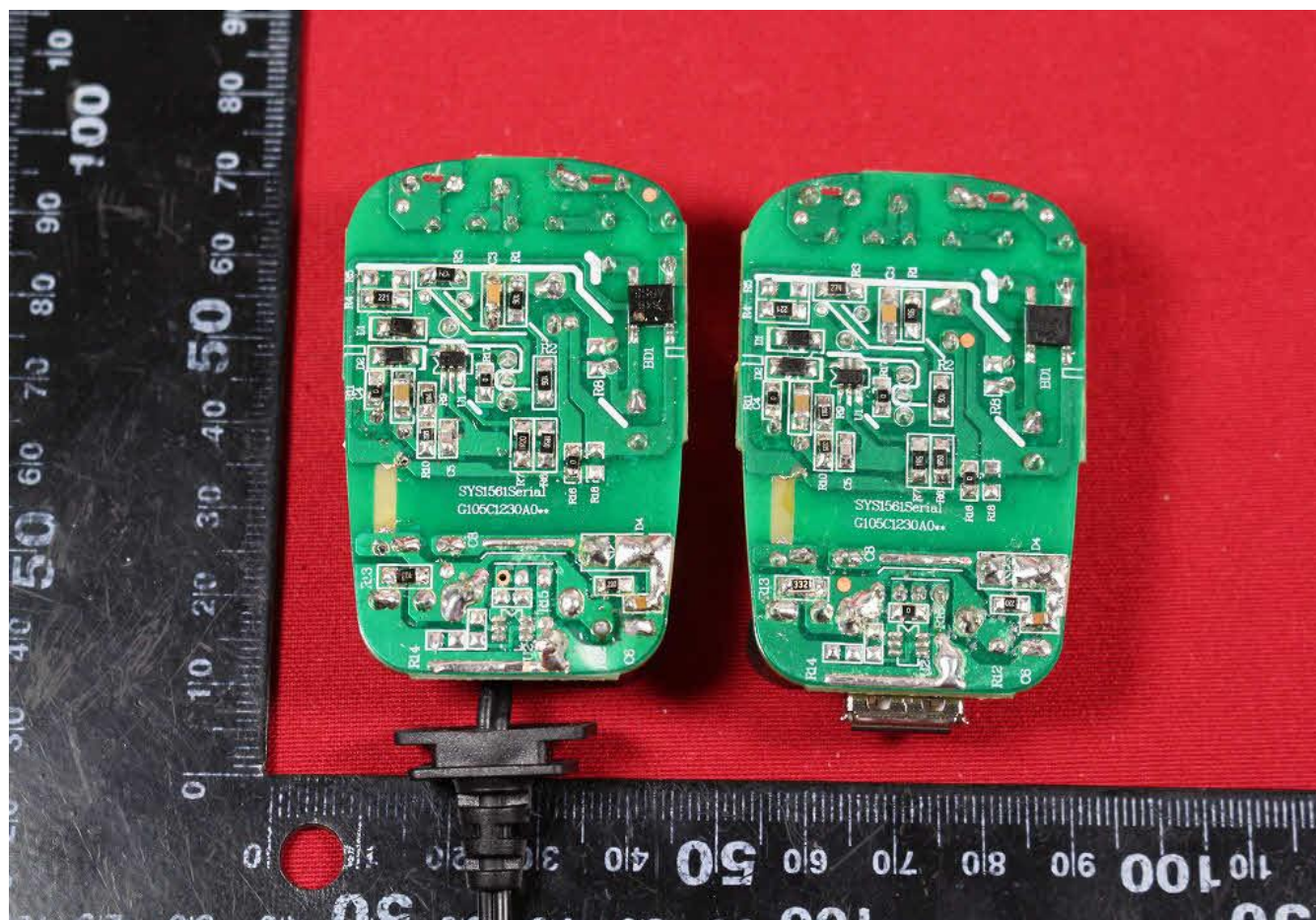




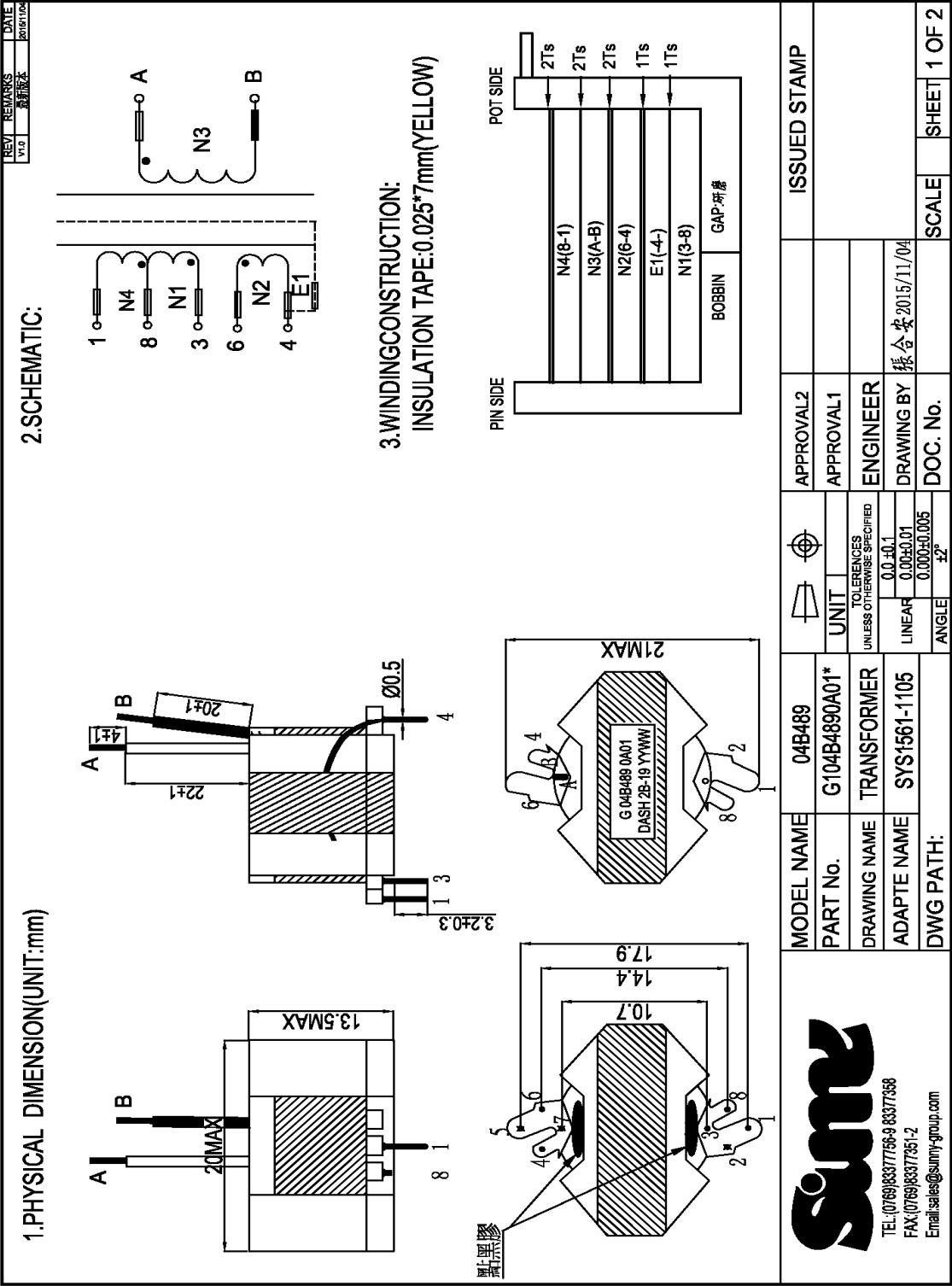












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REV: V1.0

REMARKS: 最終本

DATE: 2016/10/04

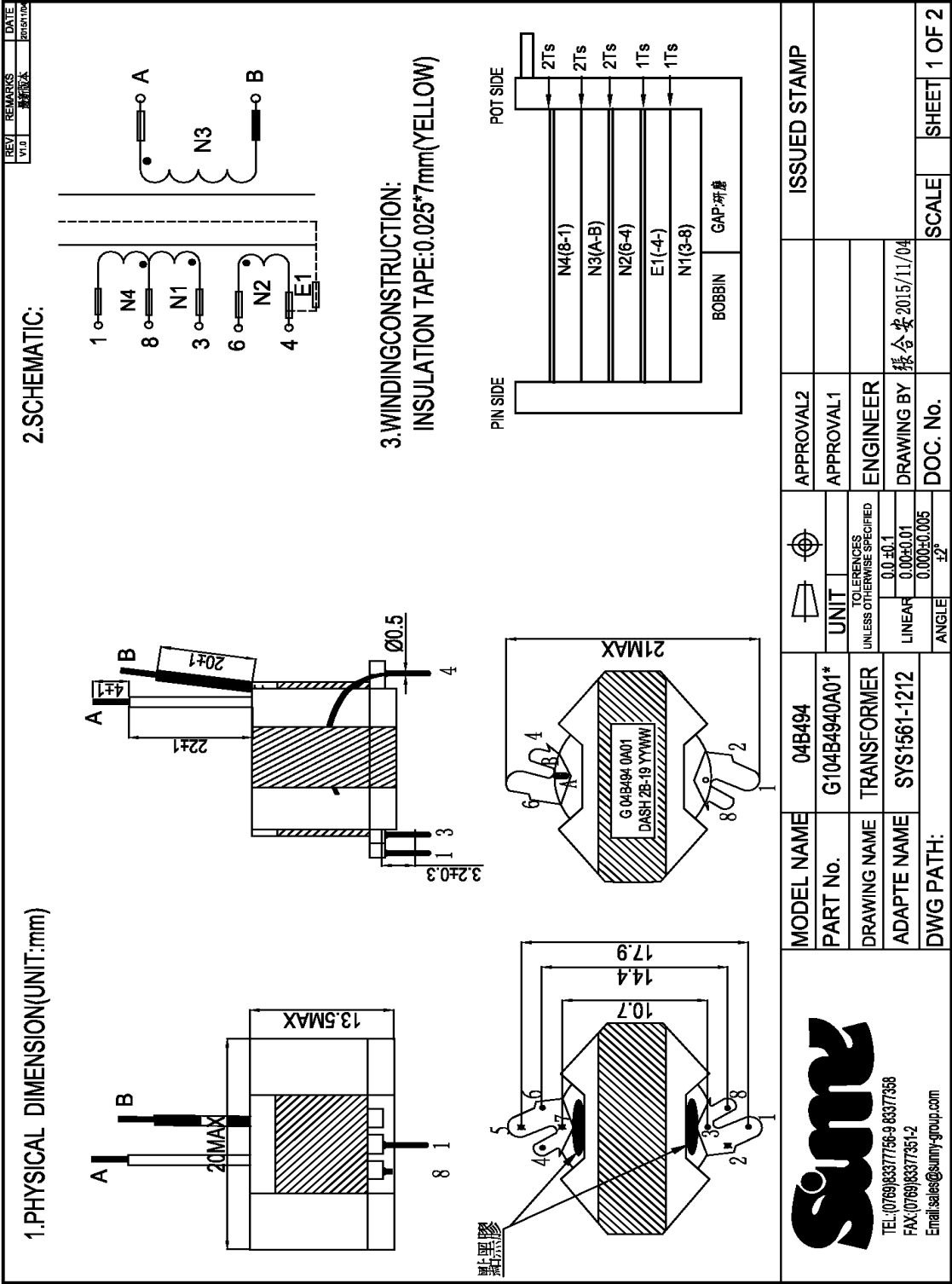
4. WINDING TABLE:

WDG	Margin tape (槽帶)	Pin (腳位)	Copper (銅線)	Turns (圈數)	Winding Method (繞線方式)	Tap Time (穿線時間)	Tube (套管)	TEST CONDUCTION INDUCTANCE
N1	0	3-8	φ0.21x1P 2UEW	52Ts	密繞	11s	28L*8mm / 28L*8mm	INDUCTANCE & RESISTANCE TEST AT 1KHz 0.25V SERIES MODEL (1-3) 1.0mH ±5%
E1	0	-4-	φ0.15x1P 2UEW	30Ts	密繞	11s	30L*8mm / 0	
N2	0	6-4	φ0.18*2P 2UEW	13Ts	密繞	2Ts	26L*8mm / 26L*8mm	
N3	0	A-B	φ0.70x1P TEX-E	5Ts	均繞	2Ts	18L*30mm / 18L*28mm	
N4	0	8-1	φ0.21*1P 2UEW	18Ts	密繞	2Ts	28L*8mm / 28L*8mm	

注意事項:

1. PIN 2, 5, 7, CUT OFF, PIN8剪掉2/3, PIN朝機臺外繞線, A, B飛線從頂部出線, 分別長度如圖,
2. 所有繞組必須繞線平整, 修腳時PIN4需留余線25mm*3條絞合鍍錫, GAP CORE裝於頂部, 固定CORE膠0.025x6mmx2Ts, PIN4余線與磁芯側面接地 (如圖),
3. 產品需抽真空浸10分鐘以上, 一定要浸泡到位, 成品PIN端B08B IN與磁芯需點黑膠, 點黑膠適中, 不能超出磁芯面,
4. G104B4890A01 "G"表示無鉛"0A01"為我司內部管控是可變動的,
5. LEAKGE INDUCTANCE: 10mH MAX,
TEST CONDUCTION: 1 TO 3 AT 1KHz 0.25V SERIES MODEL
SHORT PIN: 6, 4, A, B,
6. HI-POT TEST:
PRI-SEC 3750V AC/10mA/60S
SEC-CORE 3000V AC/10mA/60S

Sunny TEL: 0769 8337755-9 83377539 FAX: 0769 83377351-2 Email: sales@sunny-group.com	MODEL NAME	04B489	UNIT: MM TOLERANCES UNLESS OTHERWISE SPECIFIED	APPROVAL2	ISSUED STAMP
	PART No.	G104B4890A01*		APPROVAL1	
	DRAWING NAME	TRANSFORMER	ENGINEER		
	ADAPTE NAME	SYS1561-1105	DRAWING BY 孫合安 2015/11/04		
	DWG PATH:		DOC. No.	SCALE	



REV: V1.0

REMARKS: 無異議

DATE: 2015/11/04

4. WINDING TABLE:

WDG	Margin tape (槽帶)	PIN (腳位)	Copper (銅線)	Turns (圈數)	Winding Method (繞線方式)	Tap Time (圈時間)	Tube (套管)	TEST CONDUCTION INDUCTION
N1	0	3-8	φ0.21x1P 2UEW	52Ts	密繞	1Ts	28L*8mm / 28L*8mm	INDUCTANCE & RESISTANCE TEST AT 1KHz 0.25V SERIES MODEL (1-3) 1.0mH ±5%
E1	0	-4-	φ0.15x1P 2UEW	30Ts	密繞	1Ts	30L*8mm / 0	
N2	0	6-4	φ0.18x2P 2UEW	12Ts	密繞	2Ts	26L*8mm / 26L*8mm	
N3	0	A-B	φ0.40x1P TEX-E	10Ts	均繞	2Ts	22L*30mm / 22L*28mm	
N4	0	8-1	φ0.21x1P 2UEW	18Ts	密繞	2Ts	28L*8mm / 28L*8mm	

注意事項:

1. PIN: 2, 5, 7. CUT OFF, PIN8剪掉2/3, PIN朝機臺外繞線, A. D時繞線從頂部出線, 分別長度如圖。
2. 所有繞組必須繞線平整, 修腳時PIN4需留余線25mm*3條紋合鍍錫, GAP CORE裝於頂部, 固定CORE膠0.025x6mmx2Ts, PIN4余線與磁芯側面接地(如圖),
3. 產品需抽真空含浸10分鐘以上, 一定要浸泡到位, 成品PIN部300BB IN與磁芯需點黑膠, 點黑膠適中, 不能超出磁芯面,
4. G104B4940A01 * "G"表示無鉛"0A01"為我司內部管控是可變動的,
5. LEAKGE INDUCTANCE: 120nH MAX,
TEST CONDUCTION: 1 TO 3 AT 1KHz 0.25V SERIES MODEL
SHORT PIN: 6, 4, A, B,
6. HI-POT TEST:
PRI-SEC 3750V AC/10mA/60S
SEC-CORE 3000V AC/10mA/60S

Sunny TEL: (0769)83377358 FAX: (0769)83377351-2 Email: sales@sunny-group.com	MODEL NAME	04B494	APPROVAL 2 APPROVAL 1 ENGINEER DRAWING BY 孫合安 2015/11/04 DOC. No. SCALE	ISSUED STAMP
	PART No.	G104B4940A01*		
	DRAWING NAME	TRANSFORMER		
	ADAPTE NAME	SYS1561-1212		
	DWG PATH:			

規格承認書



SPECIFICATION FOR APPROVAL

Customer: 呈 威

Customer Model: SYS1381

Model NO: 04A095

Description: LINE FILTER 單重:1.67g

Issued Date: 2008/06/06

	"V"	Customer's Signatures	Signature
Full Approved			
Conditional Approved			
Rejected			

REPORTED	CHECKED	QC	APPROVED



呈威電子廠

變壓器事業處

中國廣東省東莞市橫瀝鎮新城工業區

Hengli New Town zone Dong Guan City Guang Dong China

TEL:(0769)83377756-9,83377358 FAX:(0769)83377351-2

E-mail:sales@sunny-group.com.tw

Web Site:http://www.sunny-group.com

符合RoHS



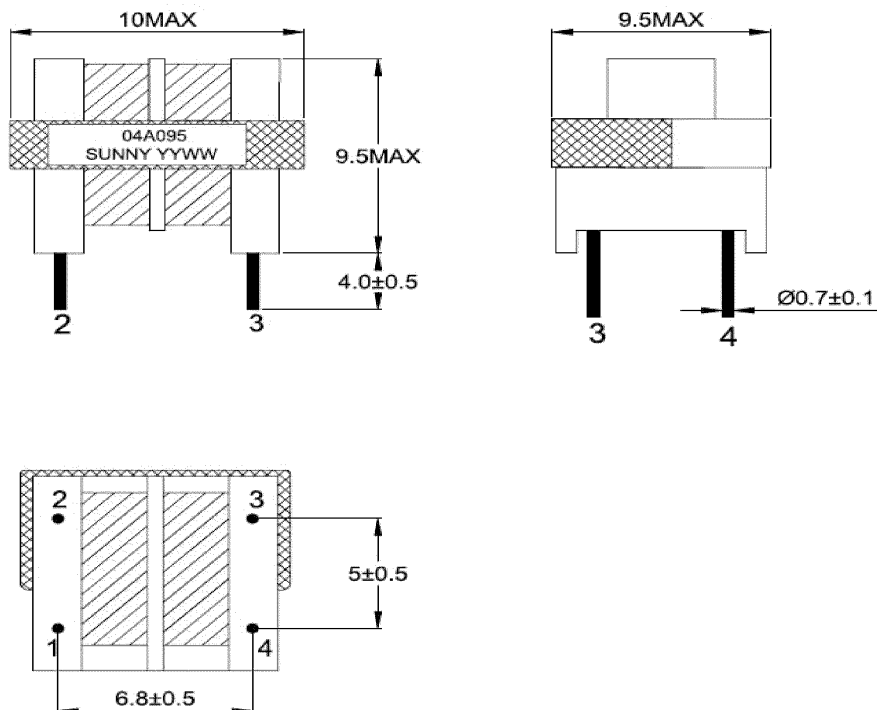
SPECIFICATION FOR APPROVAL

呈威電子廠

變壓器事業處

MODEL NO.	04A095	CUSTOMER MODEL	SYS1381
REV. NO.	A	ISSUE DATE	2008/06/06

1. PHYSICAL DIMENSION (UNIT: mm)



NOTE:

1. PIN1朝機插入軸心繞線;
2. 繞線須平整緊密;
3. 產品須浸凡立水.

APPROVED	CHECKED	PROJECT	LAYOUT	PAGE
 經理 06.JUN.08 劉傑	 工程 部 06.JUN.08 呼鵬剛	 工程 部 06.JUN.08 張合安	 工程 部 06.JUN.08 胡蘭燕	1/4



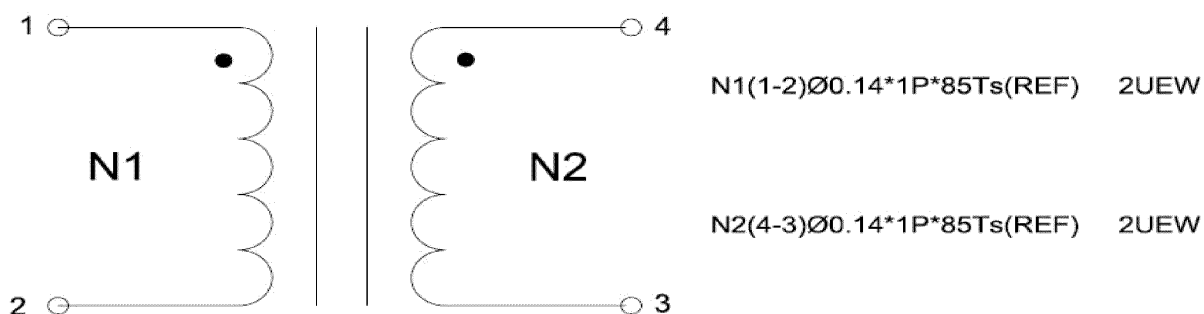
SPECIFICATION FOR APPROVAL

呈威電子廠

變壓器事業處

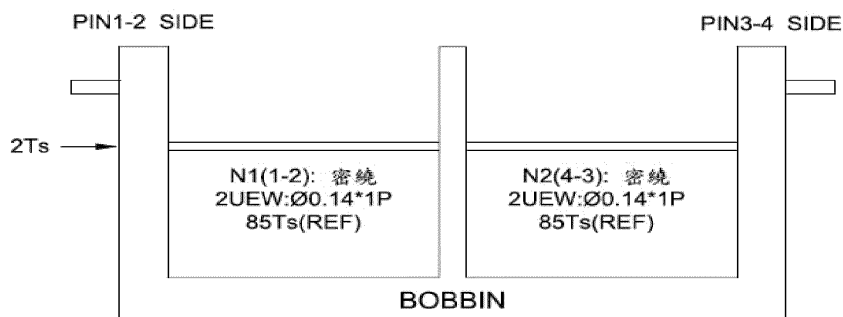
MODEL NO.	04A095	CUSTOMER MODEL	SYS1381
REV. NO.	A	ISSUE DATE	2008/06/06

2.SCHEMATIC:



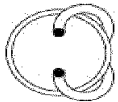
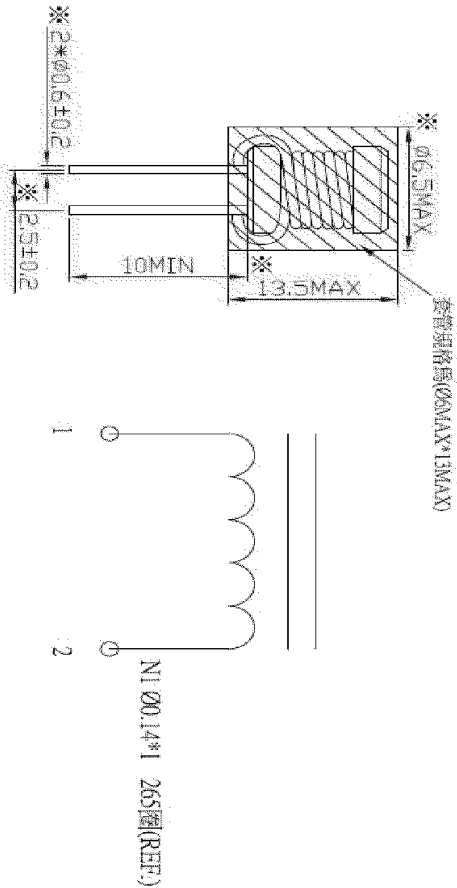
3.WINDING CONSTRUCTION:

INSULATION TAPE:0.025*3mm(YELLOW)



APPROVED	CHECKED	PROJECT	LAYOUT	PAGE
 經理 06.JUN.08 劉傑	 工程 部 06.JUN.08 呼騰剛	 工程 部 06.JUN.08 張合安	 工程 部 06.JUN.08 胡蘭燕	2/4

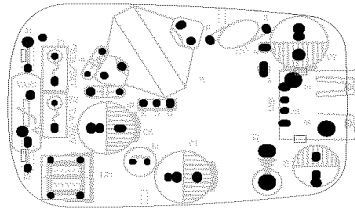
REV.	DESCRIPTION	DATE
V1.0	NEW	08/05/05

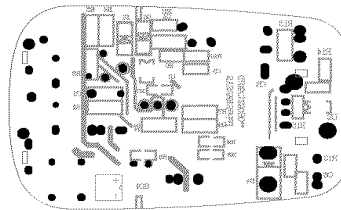


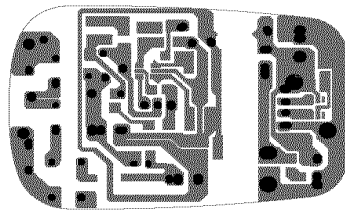
電感測試方法: (1-2) 14mH±10%
用DR5*12的磁芯
用※標識的為重點管控尺寸;

 TEL: (0769) 83377358-9, 83377358 FAX: (0769) 83377351-2 Email: Sales@sunny-group.com		MODEL NAME		D4C295		ISSUED STAMP	
PART NO		G104C295A0***		UNIT		mm	
DRAWING NAME		電感		TOLERANCES UNLESS OTHERWISE SPECIFIED		APPROVAL 1	
PART NAME				LINEAR		ENGINEER	
DWG PATH:				ANGLE		ENGINEER	
				±2° 08/08		朱香蘭08/05/05	
				DOC NO		SCALE	
						1:1	
						SHEET 1 OF 1	

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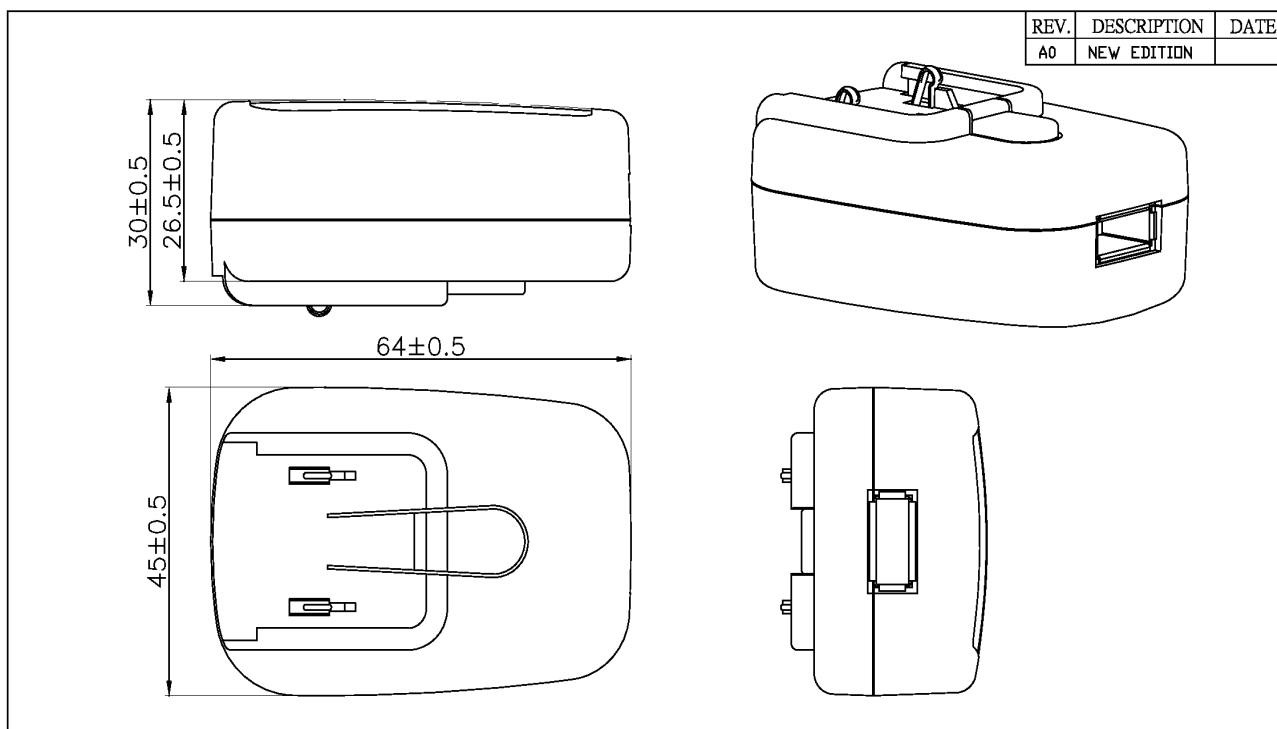


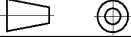
renchangho		
Checking/L	File: SYS1561Serial.SCH	Revision/LJ V0.1
	Sheet: 1 of 1	Size/L B
Approved:	Number: 1	Date/L 2014.7.10

		REV.		DESCRIPTION		DATE	
		A0		NEW EDITION			

 TEL: (0769) 83377756-9 83377358 FAX: (0769) 83377351-2 Email: sales@sunny-group.com	MODEL NAME	SYS1561(Cable)			APPROVED		ISSUED STAMP				
	PART No.		單位	公差等級	材質	CHECKED					
	DRAWING NAME	Appearance	mm	C		DESIGN					
	PART NAME		長度區分	容許公差區分		DRAWN	戴小文	15/07/01			
	DWG PATH:		RANGE	COMMON TOLERANCE		DOC.No.					
			低於 8 LESS THAN	A	B	C	D	SCALE	1.5:1	SHEET	1 of 1
		8~25	±0.05	±0.1	±0.2	±0.4					
		25~40	±0.08	±0.15	±0.3	±0.6					
		40~75	±0.12	±0.25	±0.5	±1.0					
		75~125	±0.20	±0.4	±1.0	±1.5					
		125~250	±0.3	±0.6	±1.5	±3.0					
		250~500	±1.0	±1.5	±3.0	±6.0					
		500~2500	±1.5	±2.0	±3.0	±6.0					
		NGULAR	±0.15	±0.2	±0.5	±0.8					

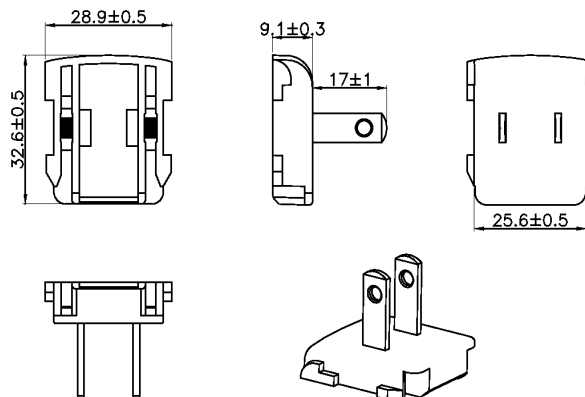
* PROPERTY OF SUNNY COMPUTER TECHNOLOGY CO.,LTD.DO NOT BE USED OR DUPLICATED WITHOUT PERMISSION OF THE OWNER.STYLE:192-V1.0



 TEL: (0769)83377756-9 83377358 FAX: (0769)83377351-2 Email: sales@sunny-group.com	MODEL NAME	SYS1561(USB)		APPROVED	ISSUED STAMP			
	PART No.			CHECKED				
	DRAWING NAME	Appearance		DESIGN				
	PART NAME			DRAWN	戴小文 15/04/01			
	DWG PATH:			DOC.No.				
					SCALE	1.5:1	SHEET	1 of 1

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REV.	DESCRIPTION	DATE
A0	新版發行	



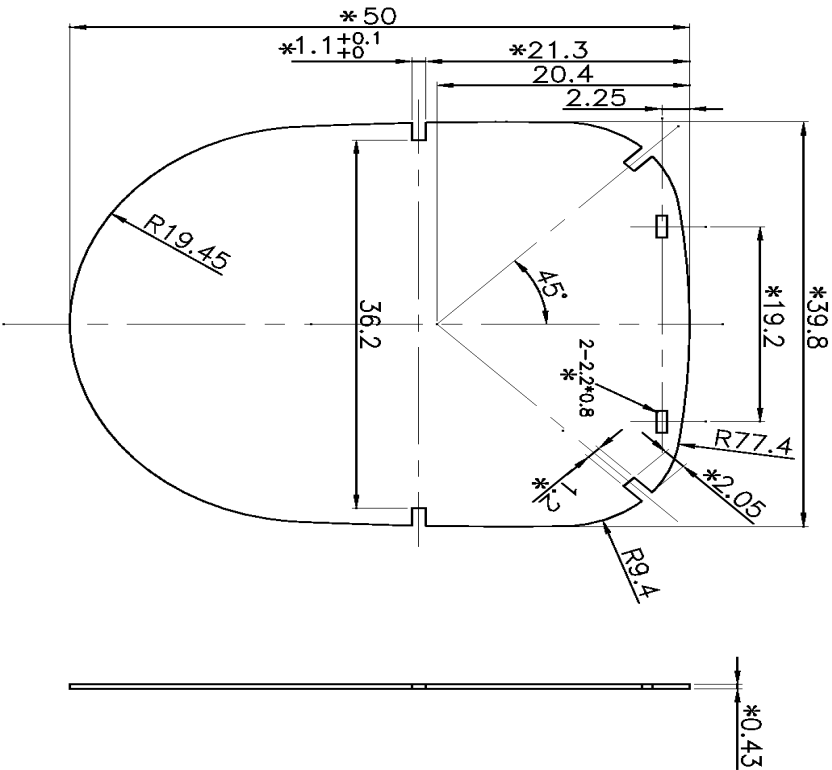
Sunny TEL:(0769)83377756-9 83377358 FAX:(0769)83377351-2 Email:sales@sunny-group.com	MODEL NAME	SYS1561			APPROVED	ISSUED STAMP				
	PART No.		單位 mm	公差等級 C	材質	CHECKED				
	DRAWING NAME	轉接頭	長度區分 RANGE		容許公差區分 COMMON TOLERANCE	DESIGN				
	PART NAME	US AC PIN	低於 8 LESS THAN		A B C D	DRAWN	戴小文 15/06/30			
			8~25		±0.05 ±0.1 ±0.2 ±0.4					
			25~40		±0.08 ±0.15 ±0.3 ±0.6					
			40~75		±0.12 ±0.25 ±0.5 ±1.0					
		75~200		±0.25 ±0.4 ±0.8 ±1.5						
		200~500		±0.5 ±1.0 ±1.5 ±3.0						
		500~2500		±1.0 ±1.5 ±3.0 ±6.0						
		ANGULAR		±0.15 ±0.3 ±0.5 ±0.8						
	DWG PATH:				DOC.No.	SCALE	1:1	SHEET	1of1	

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SYS1561-xy Model list

model	input voltage	output	Max. output power	transformer
SYS1561-0105	100-240Vac	5V,0.2A	1W	04B489
SYS1561-0205	100-240Vac	5V,0.4A	2W	
SYS1561-0305	100-240Vac	5V,0.6A	3W	
SYS1561-0405	100-240Vac	5V,0.8A	4W	
SYS1561-0505	100-240Vac	5V,1A	5W	
SYS1561-0605	100-240Vac	5V,1.2A	6W	
SYS1561-0705	100-240Vac	5V,1.4A	7W	
SYS1561-0805	100-240Vac	5V,1.6A	8W	
SYS1561-0905	100-240Vac	5V,1.8A	9W	
SYS1561-1005	100-240Vac	5V,2A	10W	
SYS1561-1105	100-240Vac	5V,2.1A	10.5W	
SYS1561-1105-1	100-240Vac	5.35V,2A	10.7W	
SYS1561-0105-2	100-240Vac	5.9V,0.16A	1W	
SYS1561-0205-2	100-240Vac	5.9V,0.33A	2W	
SYS1561-0305-2	100-240Vac	5.9V,0.50A	3W	
SYS1561-0405-2	100-240Vac	5.9V,0.67A	4W	
SYS1561-0505-2	100-240Vac	5.9V,0.84A	5W	
SYS1561-0605-2	100-240Vac	5.9V,1.01A	6W	
SYS1561-0705-2	100-240Vac	5.9V,1.18A	7W	
SYS1561-0805-2	100-240Vac	5.9V,1.35A	8W	
SYS1561-0905-2	100-240Vac	5.9V,1.52A	9W	
SYS1561-1005-2	100-240Vac	5.9V,1.69A	10W	
SYS1561-0106	100-240Vac	6V,0.16A	1W	
SYS1561-0206	100-240Vac	6V,0.33A	2W	
SYS1561-0306	100-240Vac	6V,0.5A	3W	
SYS1561-0406	100-240Vac	6V,0.66A	4W	
SYS1561-0506	100-240Vac	6V,0.83A	5W	
SYS1561-0606	100-240Vac	6V,1A	6W	
SYS1561-0706	100-240Vac	6V,1.16A	7W	
SYS1561-0806	100-240Vac	6V,1.33A	8W	
SYS1561-0906	100-240Vac	6V,1.5A	9W	
SYS1561-1006	100-240Vac	6V, 1.66A	10W	

SYS1561-0112	100-240Vac	12V, 0.08A	1W	04B494
SYS1561-0212	100-240Vac	12V, 0.16A	2W	
SYS1561-0312	100-240Vac	12V, 0.25A	3W	
SYS1561-0412	100-240Vac	12V, 0.33A	4W	
SYS1561-0512	100-240Vac	12V, 0.41A	5W	
SYS1561-0612	100-240Vac	12V, 0.5A	6W	
SYS1561-0712	100-240Vac	12V, 0.58A	7W	
SYS1561-0812	100-240Vac	12V, 0.66A	8W	
SYS1561-0912	100-240Vac	12V, 0.75A	9W	
SYS1561-1012	100-240Vac	12V, 0.83A	10W	
SYS1561-1112	100-240Vac	12V, 0.91A	11W	
SYS1561-1212	100-240Vac	12V, 1A	12W	

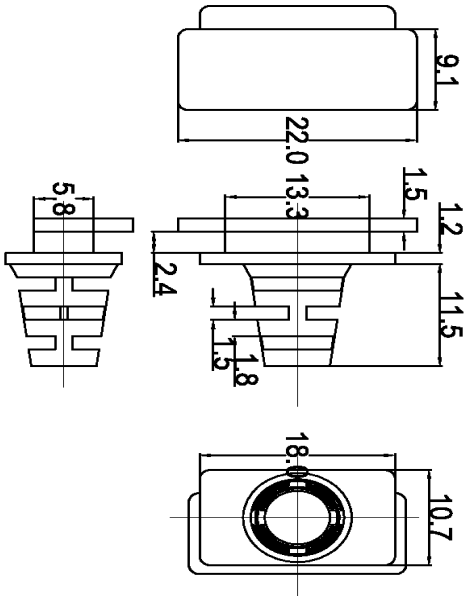


注：
1. 表面不可有刮痕、折痕；
2. 切邊不可有毛刺。

Sunny		MODEL NAME	SYS1561		APPROVED		ISSUED STAMP	
TEL: (0769) 8337756-9 83377358		PART No.			CHECKED			
FAX: (0769) 83377351-2		DRAWING NAME			DESIGN			
Email: sales@sunny-group.com		PART NAME	絕緣片		DRAWN		戴小文	
DWG PATH:				DOC. No.		15/10/16		
				SCALE		2:1		
				SHEET		1 of 1		

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REV.	DESCRIPTION	DATE
V1.0	新図發行	15/10/16



Sunny		MODEL NAME		SYS1561-SR		APPROVAL 2		ISSUED STAMP	
SUNNY PART NO		UNIT		mm		APPROVAL 1			
MODEL NO		TOLERANCES		UNLESS OTHERWISE SPECIFIED		ENGINEER			
SPEC		LINEAR		0.0 $\pm$ 0.3		ENGINEER		藏小文15/10/16	
DWG PATH:		ANGLE		0.000/-0.005		DOC.NO.		SCALE	
				+/-2 degree				SHEET 1 OF 1	

TEL:(0769)83377756-9 83377358

FAX:(0769)83377351~2

Email:Sales@Sunny-group.com

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FIGURE 1-15
PLUG AND RECEPTACLE
125 volts, 15 amperes, 2 pole, 2 wire

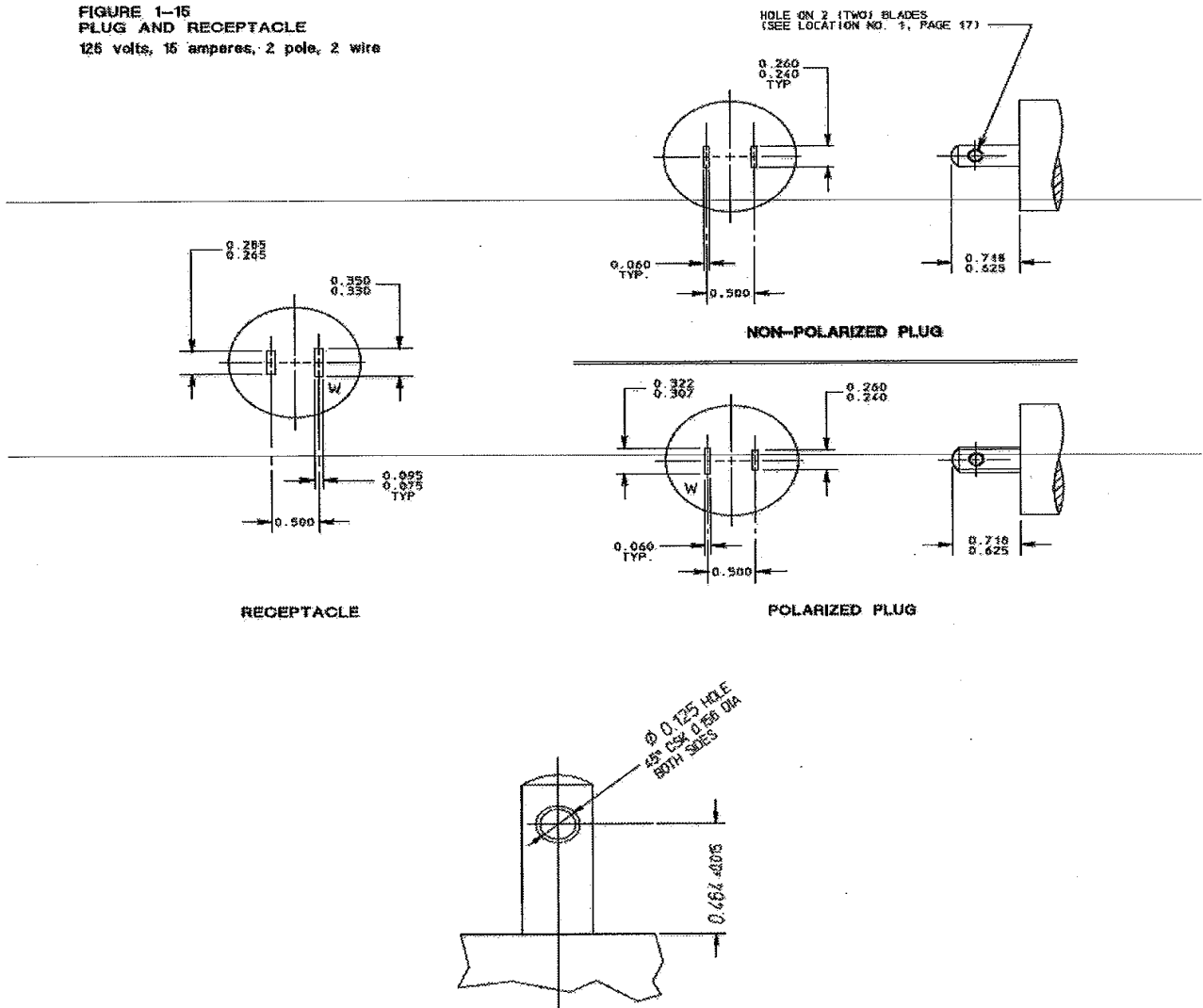
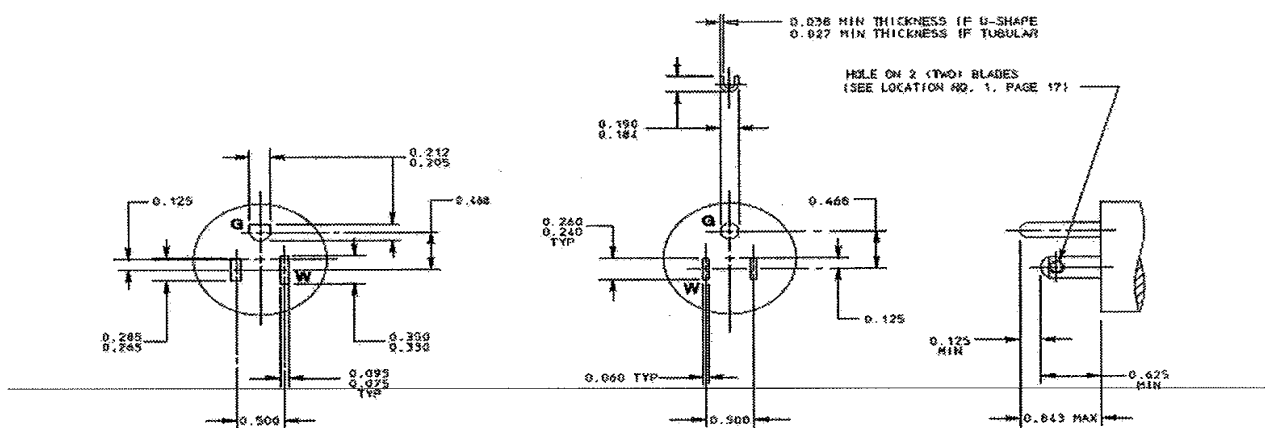


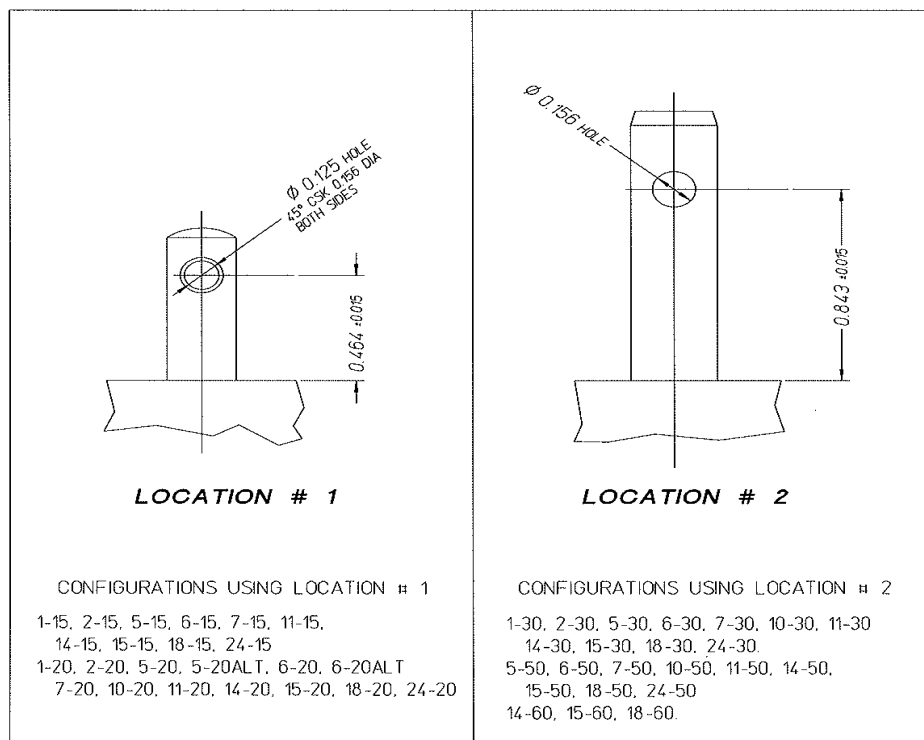
FIGURE 5-15
PLUG AND RECEPTACLE
 125 volts, 15 amperes, 2 pole, 3 wire, Grounding type



RECEPTACLE

PLUG

1. All dimensions are in inches, unless otherwise specified.
2. Decimal dimensions without tolerances shall be subject to a plus or minus 0.005-inch tolerance.
3. Angular dimensions without tolerances shall be subject to a plus or minus 1 degree tolerance.
4. "G" denotes equipment ground.
5. "W" denotes system ground.
6. Leading edges of plug blades shall be free of burrs and sharp edges.
7. All slots and slot tolerances are symmetrically located about centerlines.
8. Female contacts associated with plug blades that are 0.125 minimum longer than other blades are engaged prior to the other female contacts.

**FLAT BLADE HOLE LOCATIONS
GENERAL INFORMATION****NOTES:**

1- HOLE IN FLAT BLADE IS OPTIONAL, AND IT IS INTENDED FOR MANUFACTURING PURPOSES ONLY.
HOWEVER IF USED IT MUST BE LOCATED AS PER DIMENSIONS SHOWN ABOVE.

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Test Record No. 1

The manufacturer submitted representative production samples of Models SYS1561-1105 and SYS1561-1212.

All tests were conducted in ATT Product Service Co. Ltd under CAP-EA.

The following tests were conducted:

Test	Testing Location/Comments
Guide Information Page - Maximum Output Voltage, Current, and Volt Ampere Measurement (1.2.2.1)	
Input: Single-Phase (1.6.2)	
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)	
Limited Power Source Measurements (2.5)	
Humidity (2.9.1, 2.9.2, 5.2.2)	
Determination of Working Voltage; Working Voltage Measurement (2.10.2)	
Transformer and Wire /Insulation Electric Strength (2.10.5.13)	
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)	
Direct Plug-In Equipment-Moment (4.3.6)	WEIGHT AND MOMENT DETERMINATION: (DIRECT PLUG-IN UNIT)
Direct Plug-In Blade Securement (4.3.6)	
Direct Plug-In Security of Input Contacts (4.3.6)	
Direct Plug-In Resistance to Crushing (4.3.6)	
Direct Plug-In Rod Pressure (4.3.6)	
Direct Plug-In Input Blade Endurance (4.3.6)	
Heating (4.5.1, 1.4.12, 1.4.13)	
Ball Pressure (4.5.5, 4.5)	
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)	
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.

<u>Type</u>	<u>Supplement Id</u>	<u>Description</u>
Attachment	2-01	Construction Review Datasheet
Datasheet	2-02	Datasheet