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翌勝電子股份有限公司
JANE YU

JANE YU
EDAC POWER ELECTRONICS CO LTD
11TH FL-2, 150 JIAN YI RD
CHUNG HO DISTRICT
NEW TAIPEI
235 TAIWAN

Date: 2018/11/15
Subscriber: 847279001
PartySite: 125474
File No: E209833
Project No: 4788703372
PD No: 18O51853
Type: R
PO Number:

Subject: **Procedure And/Or Report Material**

The following material resulting from the investigation under the above numbers is enclosed.

Issue Date	Vol	Sec	Pages	Revised Date
	3		Index Page(s)	
2018/11/05	3	3	Cert of Compliance	
2018/11/05	3	3	Add New Proc/Report Sect	

PO# 1806T058 (Project No.: 4788703372)

Please file revised pages and illustrations in place of material of like identity. New material should be filed in its proper numerical order.

NOTE: Follow-Up Service Procedure revisions DO NOT include Cover Pages, Test Records and Conclusion Pages. Report revisions DO NOT include Authorization Pages, Indices, Section General Pages and Appendixes.

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TPI File

INDEX

CERTIFICATE OF COMPLIANCE

Certificate Number	20181116-E209833
Report Reference	E209833-20181105
Issue Date	2018-NOVEMBER-16
Issued to:	EDAC POWER ELECTRONICS CO LTD 11TH FL-2, 150 JIAN YI RD CHUNG HO DISTRICT NEW TAIPEI, 235 TAIWAN
This certificate confirms that representative samples of	POWER SUPPLIES FOR USE WITH AUDIO/VIDEO, INFORMATION AND COMMUNICATION TECHNOLOGY EQUIPMENT See Addendum Page
	Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.
Standard(s) for Safety:	UL 62368-1, 2nd Edition (Audio/video, Information and Communication Technology Equipment - Part 1: Safety Requirements) CAN/CSA C22.2 No. 62368-1-14, 2nd Edition, (Audio/video, Information and Communication Technology Equipment - Part 1: Safety Requirements)
Additional Information:	See the UL Online Certifications Directory at https://iq.ulprospector.com for additional information.

This *Certificate of Compliance* does not provide authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.

Bruce Mahrenholz, Director North American Certification Program

UL LLC

CERTIFICATE OF COMPLIANCE

Certificate Number	20181116-E209833
Report Reference	E209833-20181105
Issue Date	2018-NOVEMBER-16

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

Models/Product

AC Adaptors
1) EA1170XY, EA1170XYWWWWW
2) EM1170XY, EM1170XYWWWWW
('X' can be 1 or 3 to denote different inlet type, 1 to denote C14 type, 3 to denote C6 type; 'Y' can be A, B, C, D, E, F, G, H, J, K, M, N, P, Q, R or S to denote different output voltage range, 'W' can be 0-9, A-Z, a-z, '-' or blank to denote different client for marketing purpose).

Bruce Mahrenholz, Director North American Certification Program

UL LLC

File E209833
Project 4788703372

November 5, 2018

REPORT

on

Audio/video, Information and Communication Technology Equipment

EDAC POWER ELECTRONICS CO LTD
NEW TAIPEI, TAIWAN

UL TEST REPORT AND PROCEDURE

Standard:	UL 62368-1, 2nd Edition, 2014-12-01 (Audio/video, Information and Communication Technology Equipment - Part 1: Safety Requirements) CAN/CSA C22.2 No. 62368-1-14, 2nd Edition, 2014-12 (Audio/video, Information and Communication Technology Equipment - Part 1: Safety Requirements)
Certification Type:	Listing
CCN:	QQJQ, QQJQ7 (Power Supplies for use in Audio/Video, Information and Communication Technology Equipment)
Product:	AC Adaptors
Model:	1) EA1170XY, EA1170XYWWWWW 2) EM1170XY, EM1170XYWWWWW ('X' can be 1 or 3 to denote different inlet type, 1 to denote C14 type, 3 to denote C6 type; 'Y' can be A, B, C, D, E, F, G, H, J, K, M, N, P, Q, R or S to denote different output voltage range, 'W' can be 0-9, A-Z, a-z, '-' or blank to denote different client for marketing purpose).
Rating:	I1) I/P: 100-240 Vac, 50-60 Hz, 2.5 A 2) I/P: 100-240 Vac, 50-60 Hz, 2.5-1.0 A O/P: See Illustration 20 for details.
Applicant Name and Address:	EDAC Power Electronics Co., Ltd. 11-2F, No. 150, Jian Yi Rd. 235 Chung Ho District, New Taipei City 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.

[ ] UL authorizes the applicant to reproduce the latest pages of the referenced Test Report consisting of this page through to the end of the Engineering Conditions of Acceptability.

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

Prepared by: Stephen Ho Reviewed by: Vincent Lai

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

C. Listing Mark/Recognized Component Mark Data Page - 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 equipment under test (EUT) is a AC Adaptors intended for use with audio/video, information and communication technology equipment. All electrical components are mounted on PCB and housed with plastic enclosure by ultrasonic welding.
- The equipment used three alternative connections for FG (functional ground), see below and attached photos for details:
  1. FG connected to Vo (GND) by jumper
  2. FG floating, not connected to Vo (GND)
  3. FG connected to Vo (GND) by C23
- The equipment is intended to be operated in altitude 5,000 m above the sea level, the clearance distance is multiplied by the altitude correction factor (1.48) specified in table A.2 of IEC 60664-1.

If not specified, the tests were performed on models EA1170XMWWWWW, EA1170XQWWWWW, EA1170XRWWWW and EA1170XSWWWWW to represent the other models

Model Differences:

In models EA1170XY, EA1170XYWWWWW and EM1170XY, EM1170XYWWWWW, 'X' can be 1 or 3 to denote different inlet type, 1 to denote C14 type, 3 to denote C6 type; 'Y' can be A, B, C, D, E, F, G, H, J, K, M, N, P, Q, R or S to denote different output voltage range, 'W' can be 0-9, A-Z, a-z, '-' or blank to denote different client for marketing purpose.

All models are similar except for input rating, inlet type, output rating, choke (L1), transformer (T2) and model designation..

See Illustration 20 for Model lists details.

Test Item Particulars (NOT FOR FIELD REPRESENTATIVE'S USE)

Classification of installation and use by..... :	☒ Ordinary person ☐ Instructed person ☐ Skilled person ☒ Children likely to be present
Supply Connection ..... :	☒ pluggable equipment ☒ type A ☐ type B ☐ permanent connection ☒ detachable power supply cord ☐ non-detachable power supply cord ☐ not directly connected to the mains - ☐ ES1 ☐ ES2 ☐ ES3
Equipment mobility..... :	☐ movable ☐ hand-held ☒ transportable ☐ stationary ☐ for building-in ☐ direct plug-in ☐ rack-mounting ☐ wall-mounted
Over voltage category (OVC) ..... :	☐ OVC I ☒ OVC II ☐ OVC III ☐ OVC IV ☐ other:_____

Fundamental Frequency ..... :	☐ 50/60 Hz ☐ 50 Hz ☐ 60 Hz ☒ other 50-60 Hz ☐ N/A:
Class of equipment ..... :	☒ Class I ☐ Class II ☐ Class III ☐ Not classified ☐ Class II with functional earthing
Access location ..... :	☐ restricted access location ☒ N/A
Pollution degree (PD) ..... :	☐ PD 1 ☒ PD 2 ☐ PD 3 ☐ other:___
IP protection class ..... :	☒ IP X0 ☐ IP ____
Tested for IT power systems ..... :	☐ Yes ☒ No ☐ other: ____
IT testing, phase-phase voltage (V) ..... :	☐ ____ ☒ N/A
Altitude during operation (m) ..... :	☐ Up to 2,000 ☒ Up to _5000_
Altitude of test laboratory (m) ..... :	☒ Less than 2,000 ☐ Approximately _____
Mass of equipment (kg) ..... :	0.705 kg

Technical Consideration (NOT FOR FIELD REPRESENTATIVE'S USE)

- 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 product is intended for use on the following power systems: TN
- Considered current rating of protective device as part of the building installation (A) : 20 A
- Mains supply tolerance (%) or absolute mains supply values : +10%, -10%
- Mains The equipment disconnect device is considered to be: Appliance Inlet
- The following are available from the Applicant upon request: Installation (Safety) Instructions / Manual.
  - Clearance values have been evaluated for an operating altitude of -61m (-200fts) to 5000m (16404 fts), based on Table 17 altitude adjustment factor 1.48. The equipment is not for use in aircraft.

Additional Information

- N/A

Additional Standard

- CAN/CSA-C22.2 No.62368-1-14: 2014-12, IEC 62368-1:2014 (Second Edition)

Markings, instructions and instructional safeguards		
Clause Title	Marking or Instruction Details	
	English	French
Equipment identification marking – Manufacturer identification	Listee's or Recognized company's name, Trade Name, Trademark or File Number	
Equipment identification marking – model identification	Model Number	
Equipment rating marking –ratings	Input Ratings (voltage, frequency/dc, current/power) Output Ratings (voltage, frequency/dc, current/power)	
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 Production Line Testing Requirements 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 Production Line Testing Requirements is 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	Transformer (T1)	N/A	Primary to Secondary	3000	4200	1

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

All models

Electric Strength Test Exemptions - This test is not required for the following models:

--

Electric Strength Test Component Exemptions - The following solid-state components may be disconnected from the remainder of the circuitry during the performance of this test:

--

Sample and Test Specifics for Follow-Up Tests at UL

Model	Component	Material	Test	Sample(s)	Test Specifics
N/A					

4.1.2	**TABLE: list of critical components**					Pass
Object/Part or Description	**Manufacturer/ Trademark**	**Type/Model**	**Technical Data**	**Product Category CCN**	**Marks of Conformity - Required for FUS**	**Marks of Conformity - All Others**
01. Enclosure	Sabic Innovative Plastics B V	945	Minimum V-0, 120 degree C, minimum 2.5 mm thickness, see Illustration-01 for details.	QMFZ2	UL	--
02. AC Inlet (CN1) (Alternate)	Rich Bay Co Ltd	R-301SN	250Vac, 10A, C14 type	AXUT2	UL	--
02a. AC Inlet (CN1) (Alternate)	Zhejiang Leci Electronics Co Ltd	DB-14	250Vac, 10A, C14 type	AXUT2	UL	--
02b. AC Inlet (CN1) (Alternate)	Tecx-Unions Technology Corp	TU-301-SP	250Vac, 10A, C14 type	AXUT2	UL	--
02c. AC Inlet (CN1) (Alternate)	Rong Feng Industrial Co Ltd	SS-120	250Vac, 10A, C14 type	AXUT2	UL	--
02d AC Inlet (CN1) (Alternate)	HCR ELECTRONICS CO LTD	SK01 Series	250Vac, 2.5A, C14 type	AXUT2	UL	--
02e. AC Inlet (CN1)	Rich Bay Co Ltd	R-30790	250Vac, 2.5A, C6 type	AXUT2	UL	--
02f. AC Inlet (CN1) (Alternate)	Zhejiang Leci Electronics Co Ltd	DB-6	250Vac, 2.5A, C6 type	AXUT2	UL	--
02g. AC Inlet (CN1) (Alternate)	HCR ELECTRONICS CO LTD	SK03 Series	250Vac, 2.5A, C6 type	AXUT2	UL	--
02h. AC Inlet (CN1) (Alternate)	Rong Feng Industrial Co Ltd	RF-190	250Vac, 2.5A, C6 type	AXUT2	UL	--
02i. AC Inlet (CN1) (Alternate)	TECX-UNIONS TECHNOLOGY CORP	TU-333	250Vac, 2.5A, C6 type	AXUT2	UL	--
02j. AC Inlet (CN1) (Alternate)	INALWAYS CORP	0724	2.5A, 250 Vac (C6 type)	AXUT2/8	UL	--
02k. AC Inlet (CN1) (Alternate)	Solteam Electronics Co., Ltd.	ST-03	2.5A, 250 Vac (C6 type)	AXUT2/8	UL	--
03. Fuse (F1, F2) (F2 is optional)	Interchangeable	Interchangeable	T5.0A, 250Vac	JDYX/7	UL	--
03a. Fuse (F1, F2) (F2 is optional)	Interchangeable	Interchangeable	T5.0 A, 250 V, complying IEC 60127	JDYX2/8	UL	VDE

(Alternate)						
03b. Fuse (F1, F2) (F2 is optional) (Alternate)	Walter Electronic Co Ltd	2000, 2010	T5.0A, 250Vac	JDYX2	UL	--
03c. Fuse (F1, F2) (F2 is optional) (Alternate)	Conquer Electronics Co., Ltd.	PDU, MST, MET, PTU	T5.0A, 250Vac	JDYX2	UL	--
03d. Fuse (F1, F2) (F2 is optional) (Alternate)	Bel Fuse Inc	MRT, RST-Serie(s)	T5.0A, 250Vac	JDYX2	UL	--
03e. Fuse (F1, F2) (F2 is optional) (Alternate)	Littelfuse Wickmann Werke	392, 372	T5.0A, 250Vac	JDYX2	UL	--
03f. Fuse (F1, F2) (F2 is optional) (Alternate)	Littelfuse Inc	677-Series	T5.0A, 250Vac	JDYX2	UL	--
04. Varistor (RV1) (Optional)	Thinking Electronic Industrial Co Ltd	TVR14471, TVR10471	300Vac, 385Vdc	VZCA2	UL	--
04a. Varistor (RV1) (Alternate) (Optional)	Joyin Co Ltd	14N471K	300Vac, 385Vdc	VZCA2	UL	--
04b. Varistor (RV1) (Alternate) (Optional)	Brightking (Shenzhen) Co Ltd	471KD14, 471KD10	300Vac, 385Vdc	VZCA2	UL	--
04c. Varistor (RV1) (Alternate) (Optional)	Ceramate Technical Co Ltd	GNR14D471K, GNR10D471K	300Vac, 385Vdc	VZCA2	UL	--
04d. Varistor (RV1) (Alternate) (Optional)	Centra Science Corp	CNR14D471K, CNR10V471K	300Vac, 385Vdc	VZCA2	UL	--
04e. Varistor (RV1) (Alternate) (Optional)	Littelfuse Inc	SAS-471KD14, MOV-471KD14	300Vac, 385Vdc	VZCA2	UL	--
04f. Varistor (RV1) (Alternate) (Optional)	Success Electronics Co Ltd	SVR10D471K, SVR14D471K	300Vac, 385Vdc	VZCA2	UL	--
04g. Varistor (RV1) (Alternate) (Optional)	Guangdong South Hongming Electronic Science & Technology Co	ZVR-10D-471K, ZVR-14D-471K	300Vac, 385Vdc	VZCA2	UL	--

	Ltd					
05. X-Cap. (C48) (Optional)	Iskra Sistemi, D D	KNB 1530, KNB 1532, KNB 1533, KNB 1560	Maximum 0.33uF, Minimum 250 Vac, X2 or X1 type, minimum 100 degree C	FOWX2	UL	--
05a. X-Cap. (C48) (Alternate) (Optional)	Ultra Tech Xiphi Enterprise Co Ltd	HQX	Maximum 0.33uF, Minimum 250 Vac, X2 or X1 type, minimum 100 degree C	FOWX2	UL	--
05b. X-Cap. (C48) (Alternate) (Optional)	Carli Electronics Co Ltd	MPX	Maximum 0.33uF, Minimum 250 Vac, X2 or X1 type, minimum 100 degree C	FOWX2	UL	--
05c. X-Cap. (C48) (Alternate) (Optional)	Europtronic (Taiwan) Industrial Corp	MPX	Maximum 0.33uF, Minimum 250 Vac, X2 or X1 type, minimum 100 degree C	FOWX2	UL	--
05d. X-Cap. (C48) (Alternate) (Optional)	Pilkor Electronics Co Ltd	PCX2 335M	Maximum 0.33uF, Minimum 250 Vac, X2 or X1 type, minimum 100 degree C	FOWX2	UL	--
05e. X-Cap. (C48) (Alternate) (Optional)	Zhuhai Sung Ho Electronics Co Ltd	CMPP	Maximum 0.33uF, Minimum 250 Vac, X2 or X1 type, minimum 105 degree C	FOWX2	UL	--
05f. X-Cap. (C48) (Alternate) (Optional)	Guangzhou Yes Electronic Technology Co Ltd	MPX/MKP	Maximum 0.33uF, Minimum 250 Vac, X2 or X1 type, minimum 110 degree C	FOWX2	UL	--
05g. X-Cap. (C48) (Alternate) (Optional)	Shantou High-new	MPX	Rated maximum 0.47uF, minimum 250 V, X1 or X2 type, minimum 100 degree C.	FOWX2/8	UL	--
06. Y-Cap. (CY1) (Optional)	Tdk-Epc Corporation	CD	Maximum 3300pF, Minimum 250 Vac, Y1 type, minimum 125 degree C	FOWX2	UL	--
06a. Y-Cap. (CY1) (Alternate) (Optional)	Murata Mfg Co Ltd	KX	Maximum 3300pF, Minimum 250 Vac, Y1 type, minimum 125 degree C	FOWX2	UL	--
06b. Y-Cap. (CY1) (Alternate) (Optional)	Walsin Technology Corp	AH	Maximum 3300pF, Minimum 250 Vac, Y1 type, minimum 125 degree C	FOWX2	UL	--
06c. Y-Cap. (CY1) (Alternate) (Optional)	Success Electronics Co Ltd	SE	Maximum 3300pF, Minimum 250 Vac, Y1 type, minimum 125 degree C	FOWX2	UL	--
06d. Y-Cap. (CY1) (Alternate) (Optional)	WELSON INDUSTRIAL CO	WD	Maximum 3300pF, Minimum 250 Vac, Y1 type, minimum	FOWX2	UL	--

	LTD		125 degree C			
06e. Y-Cap. (CY1) (Alternate) (Optional)	Shantou High-new	CE	Maximum 3300pF, Minimum 250 Vac, Y1 type, minimum 125 degree C	FOWX2/8	UL	--
07. Bridge Rectifiers (BD1)	--	--	Minimum 600 V, Minimum 6.0 A	--	--	--
08. Ripple Capacitance (C26)	--	--	120-150uF, minimum 420 V, minimum 105 degree C	--	--	--
09. Transistor (Q1, Q2)	--	--	Minimum 500 V, minimum 5.0 A	--	--	--
10. Optical Isolators (U3)	Fairchild Semiconductor Corp	H11A817 Series	Insulation voltage 5000Vac	FPQU2	UL	--
10a. Optical Isolators (U3) (Alternate)	Everlight Electronics Co Ltd	EL817	Insulation voltage 5000Vac	FPQU2	UL	--
10b. Optical Isolators (U3) (Alternate)	Lite-On Technology Corp.	LTV-817	Insulation voltage 5300Vac	FPQU2	UL	--
10c. Optical Isolators (U3) (Alternate)	Renesas Electronics Corporation	PS2561 Series	Insulation voltage 5000Vac	FPQU2	UL	--
10d. Optical Isolators (U3) (Alternate)	Cosmo Electronics Corp	K1010	Insulation voltage 5000Vac	FPQU2	UL	--
10e. Optical Isolators (U3) (Alternate)	Vishay Infrared Components Inc	TCET1111 TCET1112 TCET1113 TCET1114 TCET1115TCET1116 TCET1117 TCET1118 TCET1119	Insulation voltage 5000Vac	FPQU2	UL	--
11. Discharge IC (IC1)	NXP Semiconductor Taiwan Ltd.	TEA19162T/1, EA19162, TEA19162CT/1, A19162C, TEA19162T/2, TEA19162HT, A19162H	264 Vac, 60Hz	--	--	CB by UL
12. Transistor (Q3)	--	--	Minimum 500 V, minimum 15.0 A	--	--	--

13. Resistor (R18)	--	--	0.039-0.18 ohm, 2 W	--	--	--
14. Resistor (R19)	--	--	200K ohm, 1/4 W	--	--	--
15. Resistor (R4, R12)	--	--	10M ohm, 1/4 W	--	--	--
16. Resistor (R14)	--	--	220Kohm, 1/4 W	--	--	--
17. Capacitance (C3, C4)	--	--	1uF, 450 V	--	--	--
18. Inductor (L1) (for Y = A, B, C, D, E, F, G, H, J, K, M, N, P, Q, R, S)	EDACPOWER	181-198	Minimum 130 degree C, see Illustration-17 for details.	--	--	--
18-1. Inductor (L1) - Core	--	--	Toroidal, OD 17.4 mm by ID 9.53 mm thick 7.11 mm	--	--	--
18-2. Inductor (L1) - Coil	Interchangeable	Interchangeable	Copper magnet wire wound concentrically on core. 0.75 mm diameter by 60 Ts, minimum 130 degree C	OBMW2	UL	--
18-3. Inductor (L1) - Varnish	Interchangeable	Interchangeable	Minimum 130 degree C	OBOR2	UL	--
18a. Inductor (L1) (Alternate) (for Y = C, D, E, F, G, H, J, K, M, N, P, Q, R, S)	Sunycore	181-036	Minimum 130 degree C, see Illustration-08 for details.	--	--	--
18a-1. Inductor (L1) - Core	--	--	Toroidal, OD 17.4 mm by ID 9.53 mm thick 7.11 mm	--	--	--
18a-2. Inductor (L1) - Coil	Interchangeable	Interchangeable	Copper magnet wire wound concentrically on core. 0.9 mm diameter by 59 Ts, minimum 130 degree C	OBMW2	UL	--
18a-3. Inductor (L1) - Varnish	Interchangeable	Interchangeable	Minimum 130 degree C	OBOR2	UL	--
19. Inductor (L3)	--	--	Minimum 105 degree C	--	--	--
19-1. Inductor (L3) - Core	--	--	Ferrite, overall 23.0 mm by 16.44 mm by 14.88 mm. Provided with two layers of insulation tape wrapped around core body, see Illustration-09 for details.	--	--	--
19-2. Inductor (L3) - Coil	Interchangeable	Interchangeable	Copper magnet wire wound concentrically on bobbin. 0.15 mm diameter by 30 Ts, minimum 105 degree C	OBMW2	UL	--

19-3. Inductor (L3) - Bobbin	Chang Chun Plastics Co Ltd	T375J	Two-flange, phenolic, rated V-0, 150 degree C, minimum 0.7mm thick. Leads exit directly through integral flanges in bobbin and are mechanically secured and soldered to pins which are molded into bobbin.	QMFZ2	UL	--
19-4. Inductor (L3) - Insulation Tape	Interchangeable	Interchangeable	Minimum 105 degree C.	OANZ2	UL	--
19-5. Inductor (L3)- Tube	Interchangeable	Interchangeable	Minimum 105 degree C.	YDPU2	UL	--
19-6. Inductor (L3) - Varnish	Interchangeable	Interchangeable	Minimum 105 degree C.	OBOR2	UL	--
20. Inductor (LF1)	--	--	Minimum 105 degree C, see Illustration-10 for details.	--	--	--
20-1. Inductor (LF1) - Core	--	--	Toroidal, OD 14 mm by ID 9 mm thick 5 mm	--	--	--
20-2. Inductor (LF1) - Coil	Interchangeable	Interchangeable	Copper magnet wire wound concentrically on core. 0.6 mm diameter by 17 Ts, minimum 105 degree C	OBMW2	UL	--
20-3. Inductor (LF1) - Triple wire	Interchangeable	Interchangeable	Triple wire wound concentrically on core. 0.6 mm diameter by 17Ts, minimum 105 degree C	OBJT2	UL	--
21. Inductor (LF2)	--	--	Minimum 105 degree C, see Illustration-11 for details.	--	--	--
21-1. Inductor (LF2) - Core	--	--	Toroidal, OD 20 mm by ID 12 mm thick 8 mm	--	--	--
21-2. Inductor (LF2) - Coil	Interchangeable	Interchangeable	Copper magnet wire wound concentrically on core. Two windings, 0.65 mm diameter by 45 Ts, minimum 105 degree C	OBMW2	UL	--
21-3. Inductor (LF2) - PWB	Interchangeable	Interchangeable	Minimum V-1, minimum 105 degree C	ZPMV2	UL	--
22. Inductor (T1)	--	--	Minimum 105 degree C, see Illustration-12 for details.	--	--	--
22-1. Inductor (T1) -	--	--	Ferrite, overall 28.5 mm by	--	--	--

Core			25.0 mm by 19 mm. Provided with two layers of insulation tape wrapped around core body.			
22-2. Inductor (T1) - Coil	Interchangeable	Interchangeable	Copper magnet wire wound concentrically on bobbin. Two windings, 0.1 mm diameter by 48 Ts, the other is 0.15 mm diameter by 3.5 Ts, minimum 105 degree C	OBMW2	UL	--
22-3. Inductor (T1) - Bobbin	Chang Chun Plastics Co Ltd	T375J	Two-flange, phenolic, rated V-0, 150 degree C, minimum 0.7mm thick. Leads exit directly through integral flanges in bobbin and are mechanically secured and soldered to pins which are molded into bobbin.	QMFZ2	UL	--
22-4. Inductor (T1) - Insulation Tape	Interchangeable	Interchangeable	Minimum 105 degree C	OANZ2	UL	--
22-5. Inductor (T1)- Tube	Interchangeable	Interchangeable	Minimum 105 degree C	YDPU2	UL	--
22-6. Inductor (T1) - Varnish	Interchangeable	Interchangeable	Minimum 105 degree C	OBOR2	UL	--
23. Transformer (T2)	EDAC Power Electronics Co Ltd	183-413 (for Y = A, C, E, M) 183-414 (for Y = B, D, F, N, P, Q) 183-422 (for Y = G, J, R) 183-423 (for Y = H, K, S)	Class B, see Illustration-13 to Illustration-16 for details.	--	--	--
23-1. Transformer (T2) – insulation system	EDAC Power Electronics Co Ltd	EDACB3	Class B	OBJY2	UL	--
23-2. Transformer (T2) - Core	--	--	Ferrite, overall 32.0 mm by 25.12 mm by 21.75 mm. Provided with two layers of insulation tape wrapped around core body.	--	--	--
23-3. Transformer (T2) -	Interchangeable	Interchangeable	Copper magnet wire wound	OBMW2	UL	--

Coil			concentrically on bobbin, minimum 130 degree C			
23-4. Transformer (T2) - Bobbin	Sumitomo Bakelite Co Ltd	PM-9820	Two-flange, phenolic, minimum V-1 or better, 150 degree C, minimum 0.71 mm thick. Leads exit directly through integral flanges in bobbin and are mechanically secured and soldered to pins which are molded into bobbin.	QMFZ2	UL	--
23-4a. Transformer (T2) - Bobbin (Alternate)	Chang Chun Plastics Co Ltd	T375J	Two-flange, phenolic, minimum V-1 or better, 150 degree C, minimum 0.71 mm thick. Leads exit directly through integral flanges in bobbin and are mechanically secured and soldered to pins which are molded into bobbin.	QMFZ2	UL	--
23-5. Transformer (T2) - Triple wire	Great Leoflon Industrial Co., Ltd.	TRW(B)	Minimum 130 degree C	OBJT2	UL	--
23-6. Transformer (T2) - Insulation Tape	Jingjiang Yahua Pressure Sensitive Glue Co Ltd	CT	Minimum 130 degree C	OANZ2	UL	--
23-7. Transformer (T2) - Insulation Tape	3M Company Electrical Markets Div (Emd)	1350F-1, 44	Minimum 130 degree C	OANZ2	UL	--
23-8. Transformer (T2)-Tube	Great Holding Industrial Co Ltd	TFL	Minimum 130 degree C	YDPU2	UL	--
23-9. Transformer (T2) – Varnish	JOHN C DOLPH CO	BC-346A	Minimum 200 degree C	OBOR2	UL	--
24. Heat sink (HS1)	--	--	Primary, aluminum, see Illustration-04 for details.	--	--	--
25. Heat sink (HS2)	--	--	Primary, aluminum, see Illustration-05 for details.	--	--	--
26. Heat sink (HS3)	--	--	Secondary, aluminum, see Illustration-06 for details.	--	--	--
27. Metal Shielding (Top and Bottom)	--	--	Secondary, U shape, aluminum, see Illustration-02 for details.	--	--	--
28. Mylar sheet between	Mianyang Longhua	PP-(i)(j)	Minimum VTM-0, minimum	QMFZ2	UL	--

PCB and shielding	Film Co Ltd		0.4mm thickness, see Illustration-03 for details.			
28a. Mylar sheet between PCB and shielding (alternate)	Formex,Div Of Il Tool Works Inc,Frmrly Fastex,Div Of Il Tool Works Inc	FORMEX GK-(a)(b)(f2)	Minimum VTM-0, minimum 0.4mm thickness see Illustration-03 for details.	QMFZ2	UL	--
28b. Mylar sheet between PCB and shielding (alternate)	ITW ELECTRONICS COMPONENTS/ PRODUCTS (SHANGHAI) CO LTD	Formex EP-(a)(d)(f2)	Minimum VTM-0, minimum 0.4mm thickness, see Illustration-03 for details.	QMFZ2	UL	--
28c. Mylar sheet between PCB and shielding (alternate)	ITW ELECTRONICS COMPONENTS/ PRODUCTS (SHANGHAI) CO LTD	FORMEX GK-(a)(d)(f2)	Minimum VTM-0, minimum 0.4mm thickness, see Illustration-03 for details.	QMFZ2	UL	--
28d. Mylar sheet between PCB and shielding (alternate)	CHENGDU KANGLONGXIN PLASTICS CO LTD	KLX PP BK-17	Minimum VTM-0, minimum 0.4mm thickness, see Illustration-03 for details.	QMFZ2	UL	--
28e. Mylar sheet between PCB and shielding (alternate)	SHENZHEN XING FU CHENG APPLIED MATERIALS CO LTD	XFCPC-EFR9970B	Minimum V-0, minimum 0.4mm thickness, see enclosure 4-03 for details.	QMFZ2	UL	--
29. Insulation Tape (used for HS1)	Jingjiang Yahua Pressure Sensitive Glue Co Ltd	CT	Minimum 130 degree C	OANZ2	UL	--
29a. Insulation Tape (used for HS1)	3M Company Electrical Markets Div (Emd)	1350F-1	Minimum 130 degree C	OANZ2	UL	--
29b. Insulation Tape (used for HS1) (Alternate)	Suzhou Mailaduona Electric Material Co Ltd	JY312	Minimum 130 degree C	OANZ2	UL	--
30. Bonding earthing wiring	Interchangeable	Interchangeable	Minimum 300V, minimum 105 degree C, minimum 18AWG, insulated with FEP, TFE, PTFE, PVE, neoprene,	AVLV2	UL	--

			polyimide or marked VW-1 or FT-1. One end connected to the inlet earthing terminal and mechanically secured by soldering, the other end terminated with PWB by soldering.			
31. Strain Relief and Pushback Relief	Interchangeable	Interchangeable	Integral part of output cord, material rated V-1 or better see Illustration-07 for details.	QMFZ2	UL	--
32. Power supply cord (Optional)	Interchangeable	Interchangeable	Detachable, minimum 1.5m and maximum 4.5m long; Type SVT or SPT-2, minimum 18AWG/2C; flexible cord, one end terminates in NEMA 5-15P or 2-15P, other end in appliance coupler.	ZJCZ+RTRT/AXUT or ELBZ	UL	--
33. Output cord	Interchangeable	Interchangeable	Non-detachable, maximum 3.05m long, FEP, PTFE, PVC, TFE, neoprene, polyimide or marked VW-1 or FT-1; minimum 30V, 80degree C, minimum 18AWG.	AVLV2	UL	--
34.Label	Interchangeable	Interchangeable	Maximum surface temperature specified, or 85 degree C if not specified.	PGDQ2 or PGJI2	UL	--
35. PWB	Interchangeable	Interchangeable	Minimum V-1, minimum 130 degree C	ZPMV2	UL	--
36. LED Cover	SABIC JAPAN L L C	945 (GG)	Minimum V-0, 120 degree C, minimum 1.0 mm thickness..	QMFZ2	UL	--

ENCLOSURES

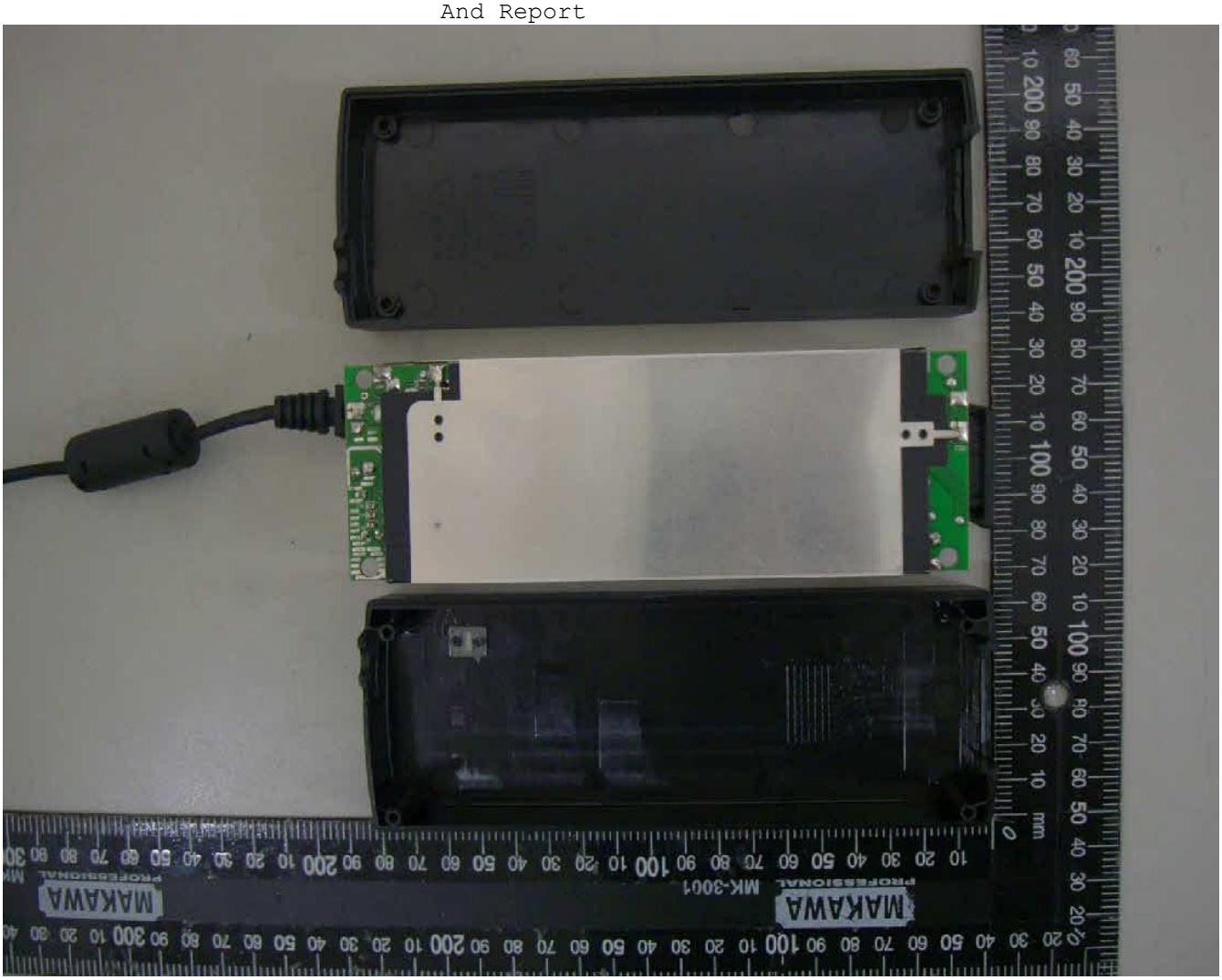
Type	Supplement Id	Description
Figures	Figure-01	3-01 Overall view 1
	Figure-02	3-02 Overall view 2
	Figure-03	3-03 Overall view 3
	Figure-04	3-04 Internal view.jpg
	Figure-05	3-05 Internal view
	Figure-06	3-06 Power board top view 1
	Figure-07	Power board top view 2
	Figure-08	Power board bottom view 2
	Figure-09	Secondary part (Capacitor C23 place is normal closed)
	Figure-10	Secondary part (Capacitor C23 place is a located on bypassed jumper).
	Figure-11	Secondary part (Capacitor C23 place is located on a capacitor).

Illustrations	Illustration-01	Enclosure dimension
	Illustration-02	Shielding spec
	Illustration-03	Spec for Mylar sheet between PCB and shielding
	Illustration-04	Spec for Heatsink HS1
	Illustration-05	Spec for Heatsink HS2
	Illustration-06	Spec for Heatsink HS3
	Illustration-07	Strain relief drawing
	Illustration-08	Choke L1 Spec. 181-036 by Sunycore
	Illustration-09	Choke L3 Spec
	Illustration-10	Choke LF1 Spec
	Illustration-11	Choke LF2 Spec
	Illustration-12	Line Choke (T1) Spec
	Illustration-13	Spec of Transformer (T2) Model 183-413, manufactured by EDAC Power Electronics Co Ltd
	Illustration-14	Spec of Transformer (T2) Model 183-414, manufactured by EDAC Power Electronics Co Ltd
	Illustration-15	Spec of Transformer (T2) Model 183-422, manufactured by EDAC Power Electronics Co Ltd
	Illustration-16	Spec of Transformer (T2) Model 183-423, manufactured by EDAC Power Electronics Co Ltd
	Illustration-17	Choke (L1)Spec Model 181-198, by EDACPOWER
	Illustration-18	PWB Layout A
	Illustration-19	PWB Layout B
	Illustration-20	Models List and Differences

N181840102

N181840103

N181840104



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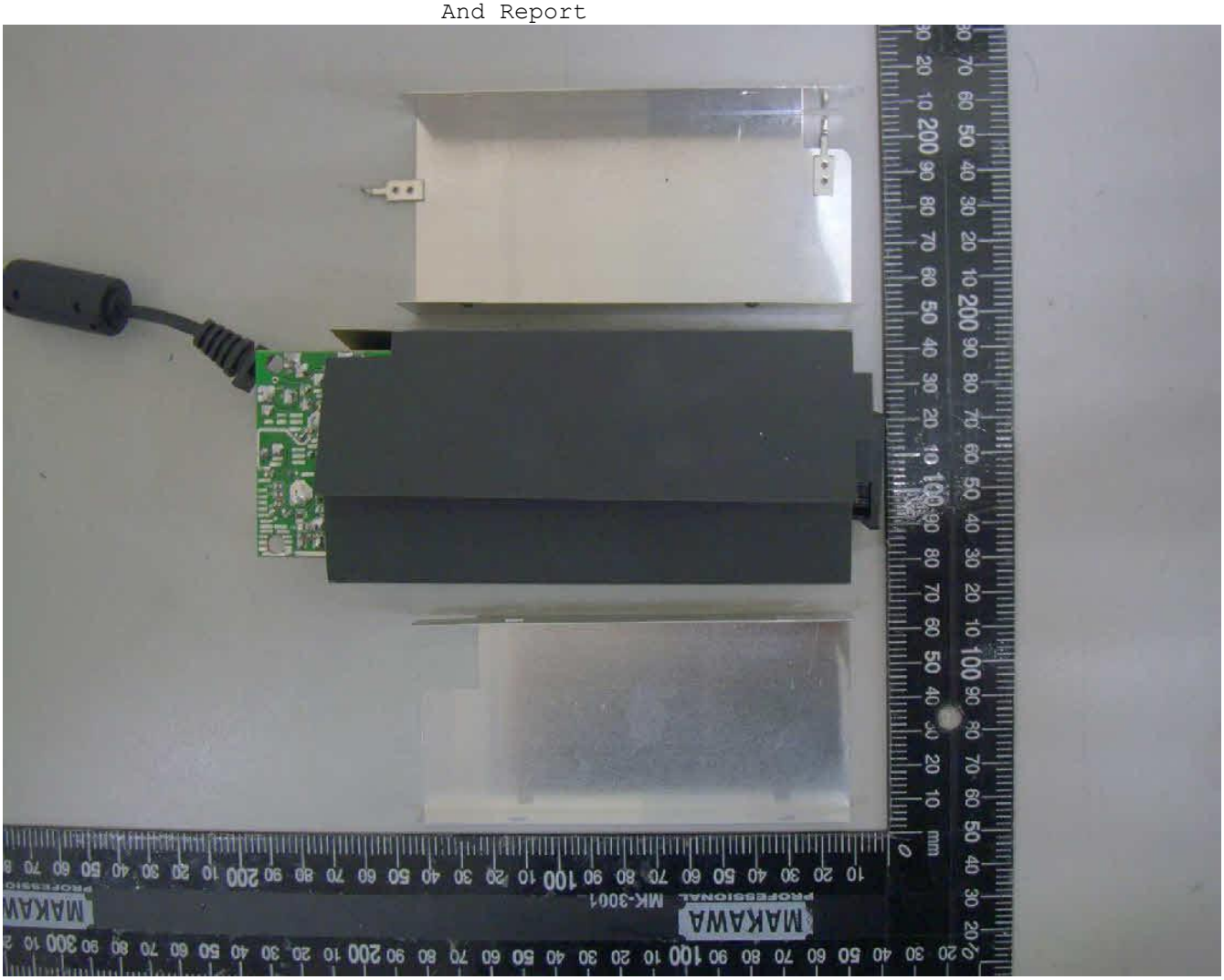

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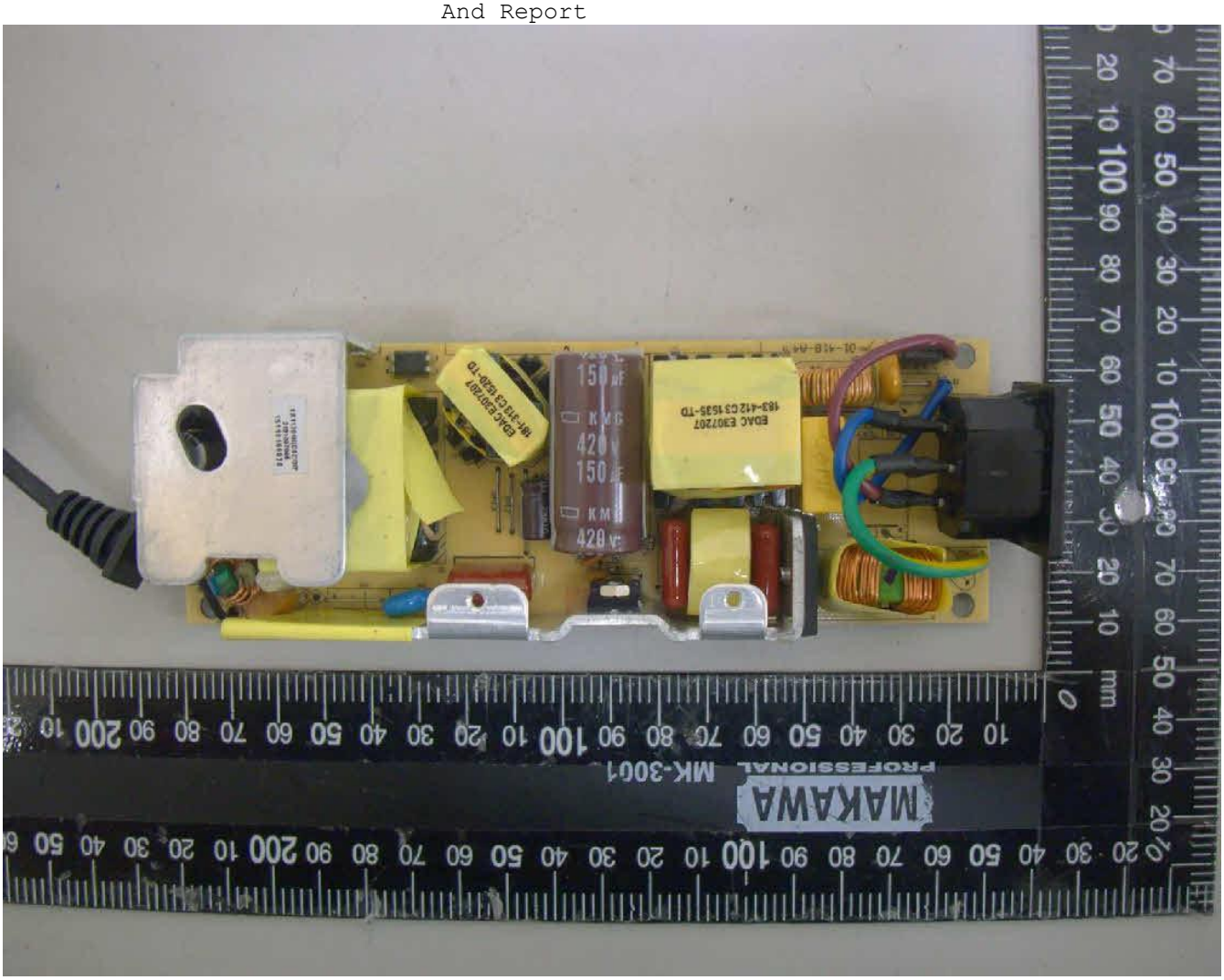

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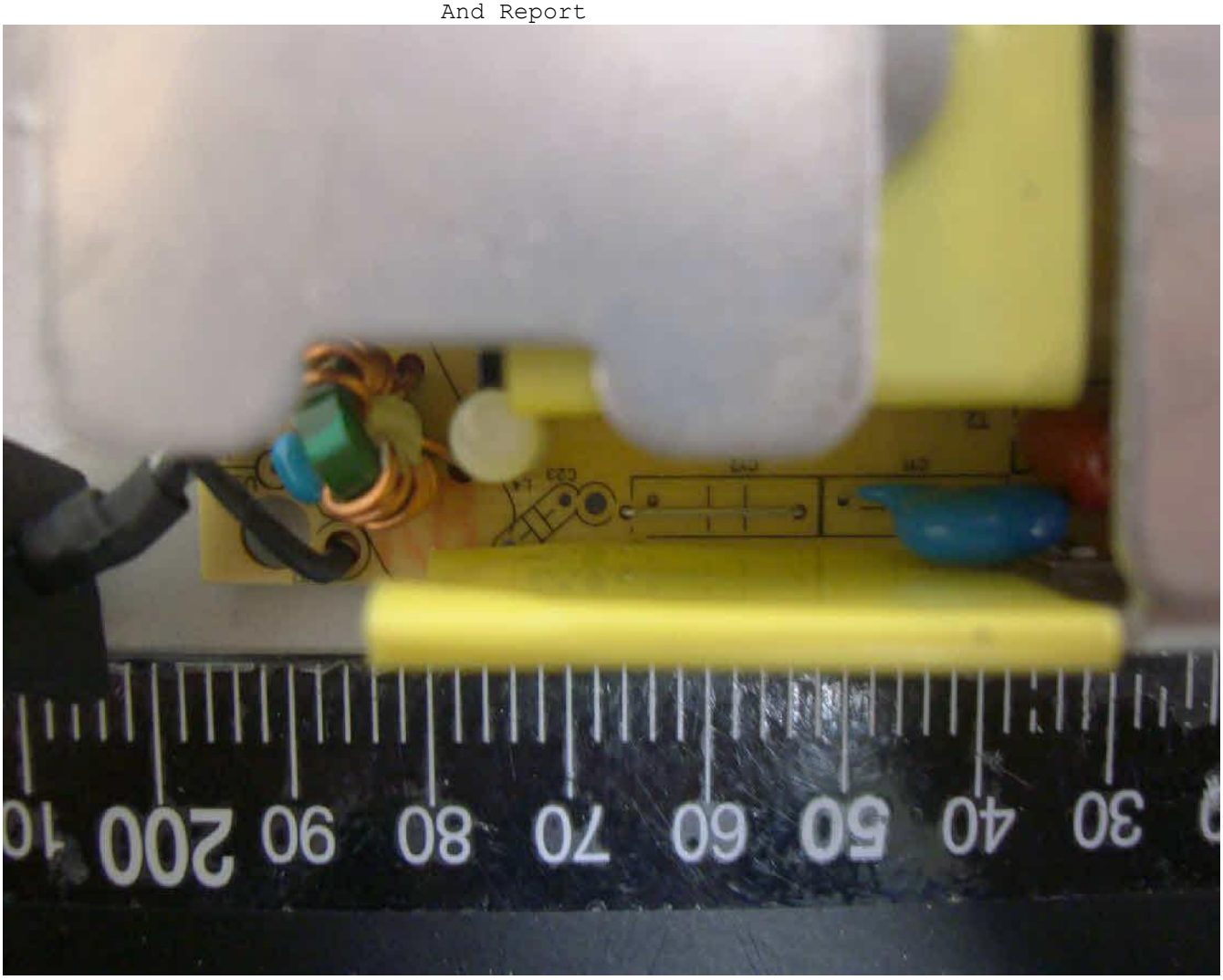

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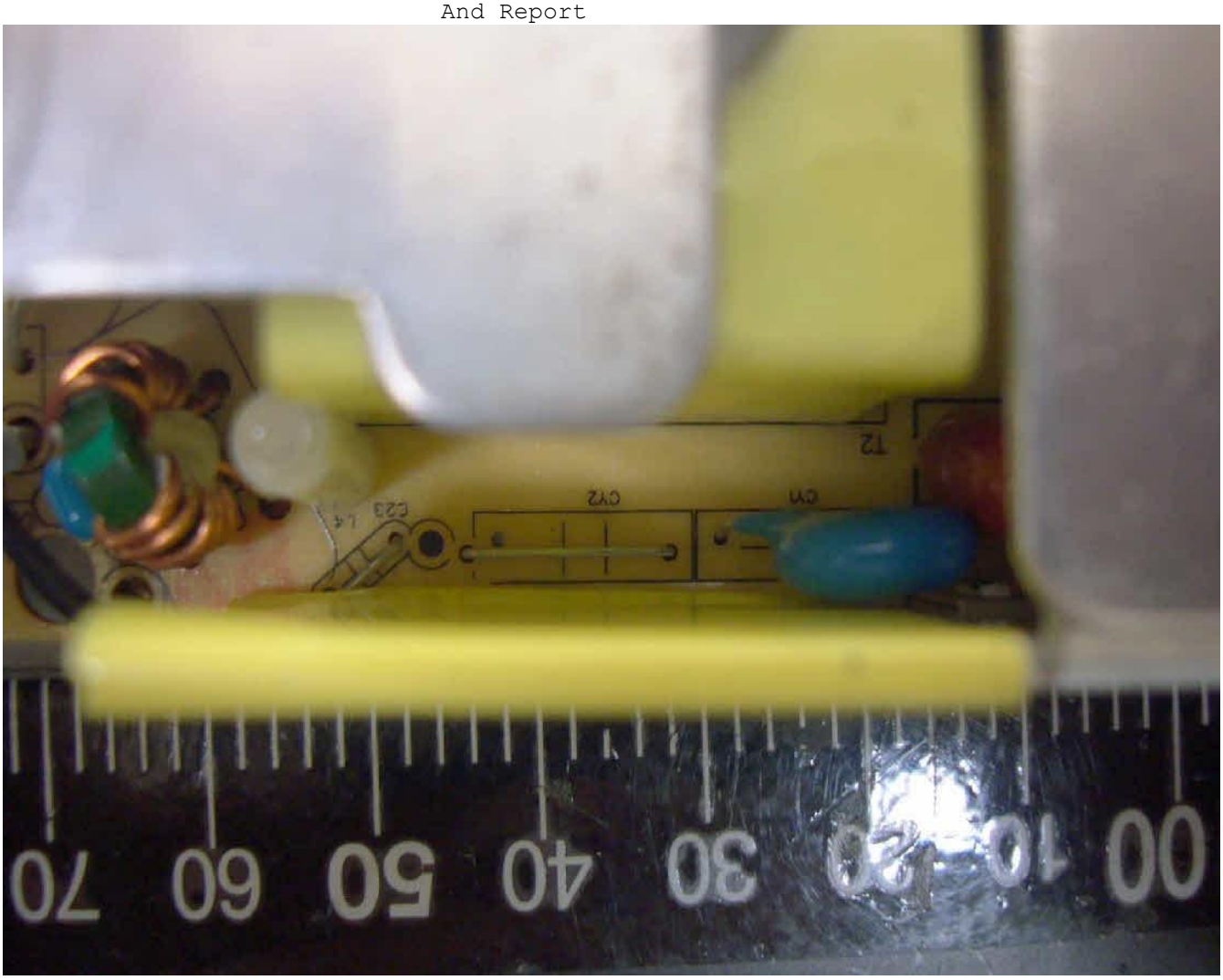

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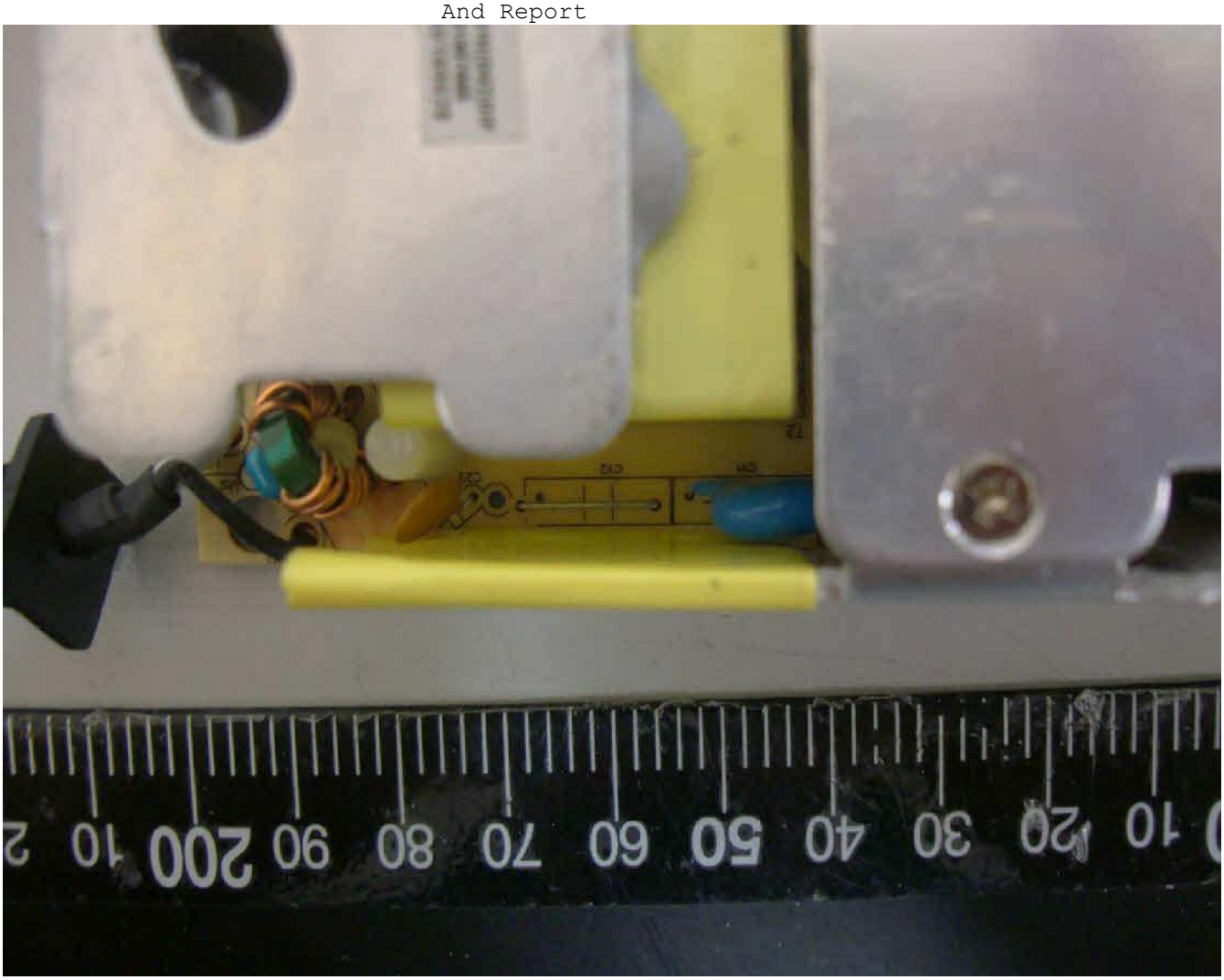

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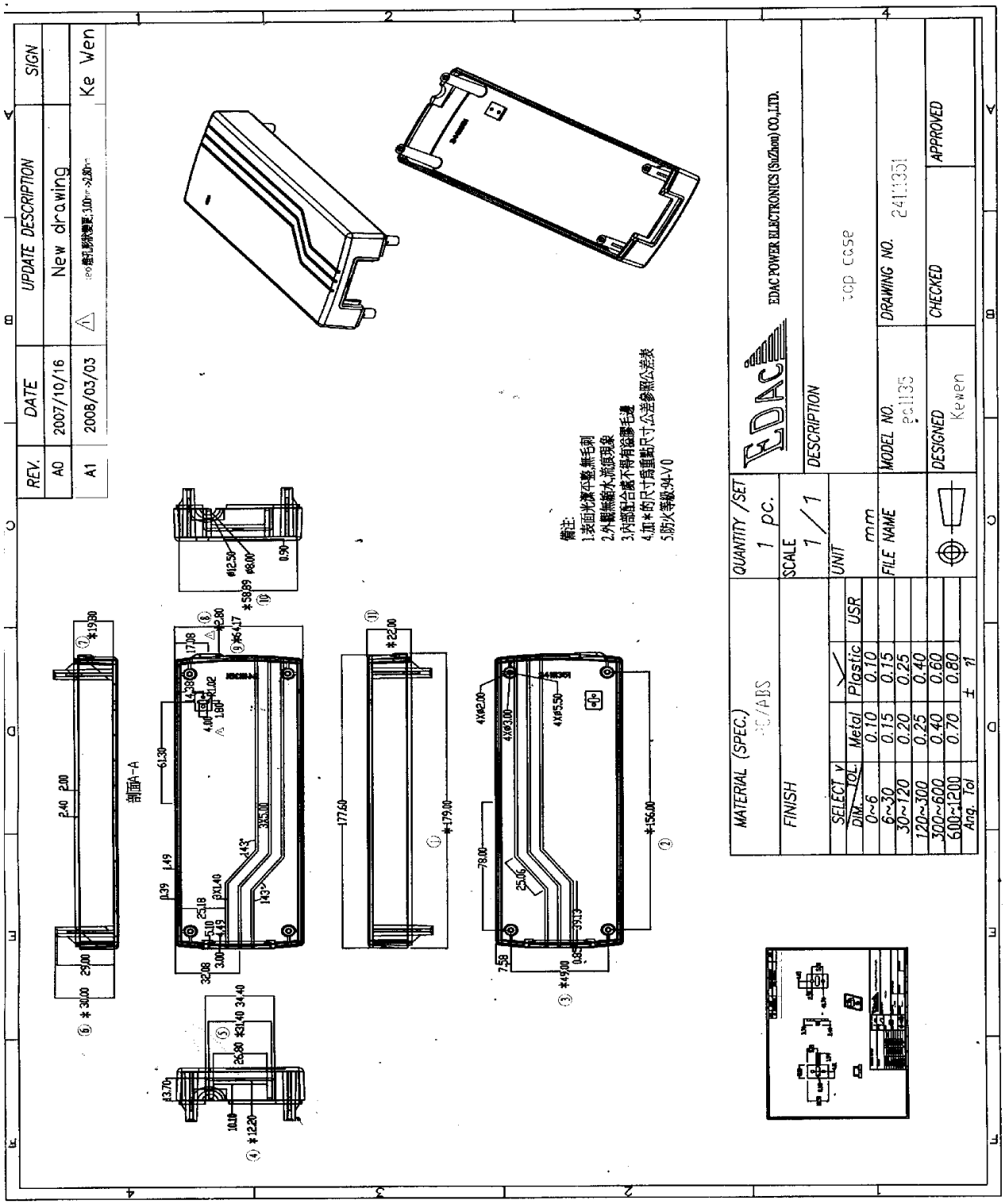
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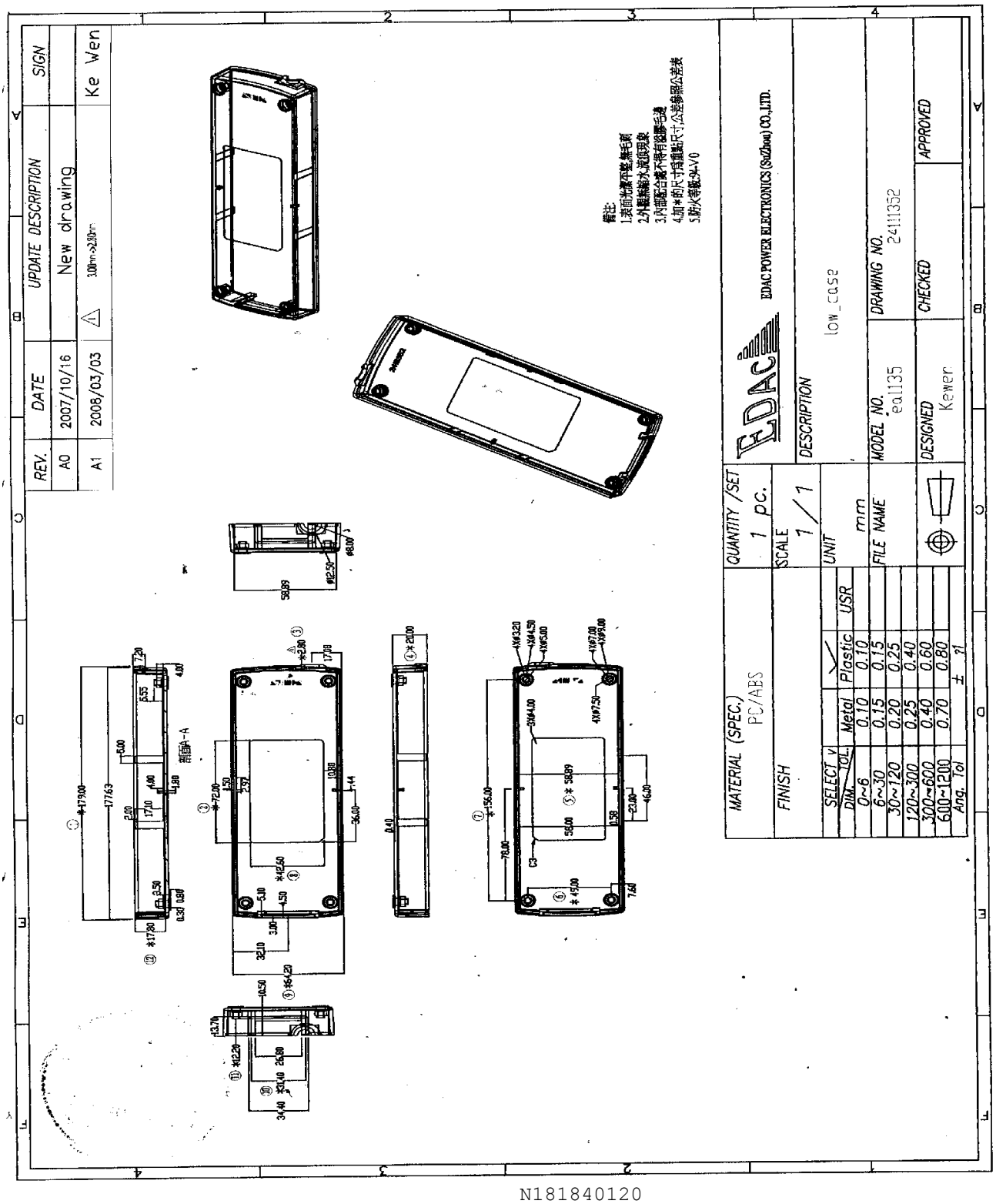
A0 2007/10/16 New drawing
A1 2008/03/03 Ke Wen
EDAC POWER ELECTRONICS (SuZhou) CO.,LTD.
DESCRIPTION top case
MODEL NO. 281135
DRAWING NO. 2411351
DESIGNED Kewen
CHECKED
APPROVED
MATERIAL (SPEC.) PC/ABS
FINISH
QUANTITY /SET 1 pc.
SCALE 1/1
UNIT mm
FILE NAME
SELECT √ Metal Plastic USR
DIM. TOL.
0~6 0.10 0.10
6~30 0.15 0.15
30~120 0.20 0.25
120~300 0.25 0.40
300~600 0.40 0.60
600~1200 0.70 0.80
Ang. Tol ± 1°
備注:
1.表面光滑平整,無毛刺
2.外觀無縮水,流痕現象
3.內部配合處不得有溢膠毛邊
4.加*的尺寸為重點尺寸,公差參照公差表
5.防火等級:94-V0
剖面A-A

N181840120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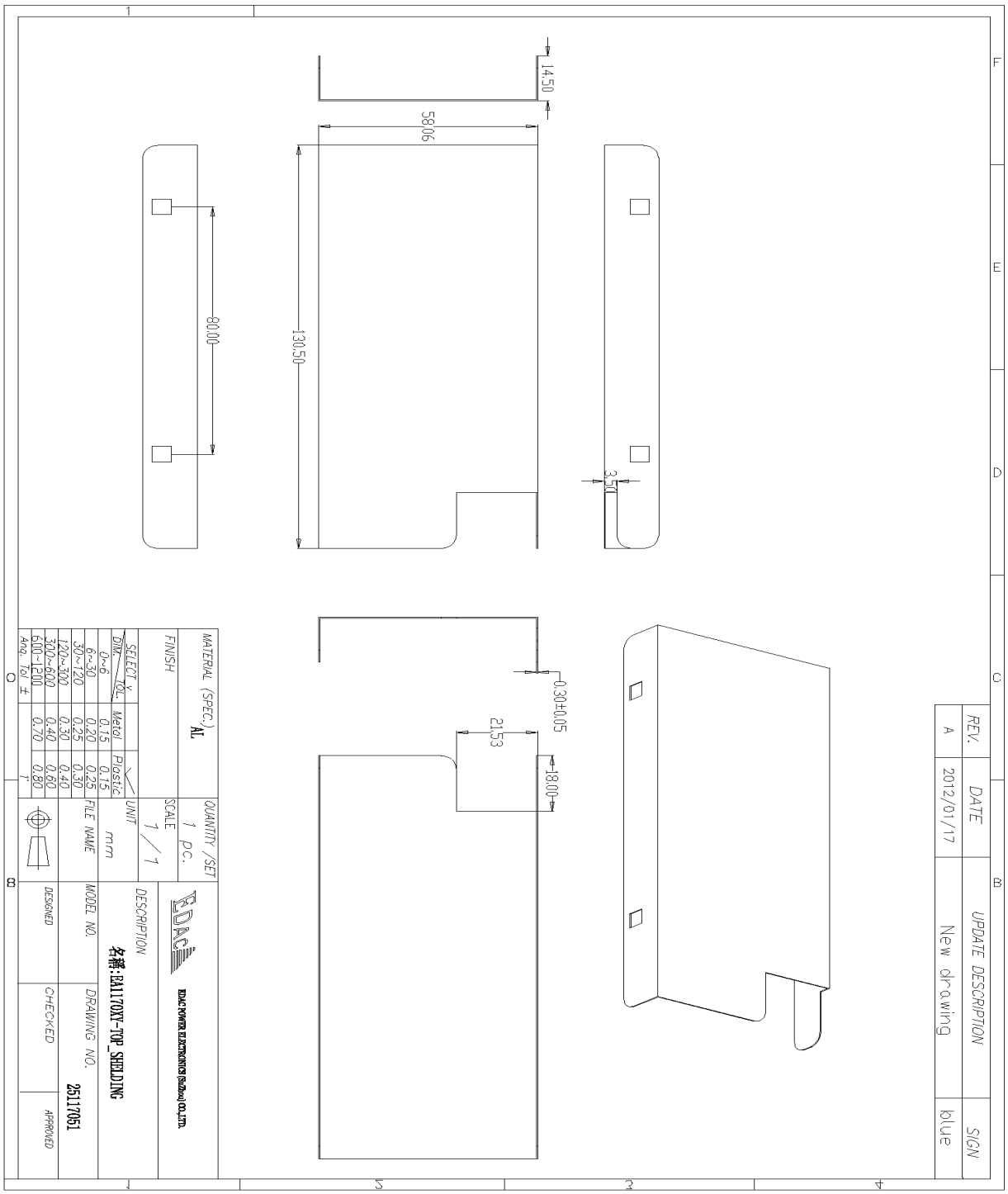
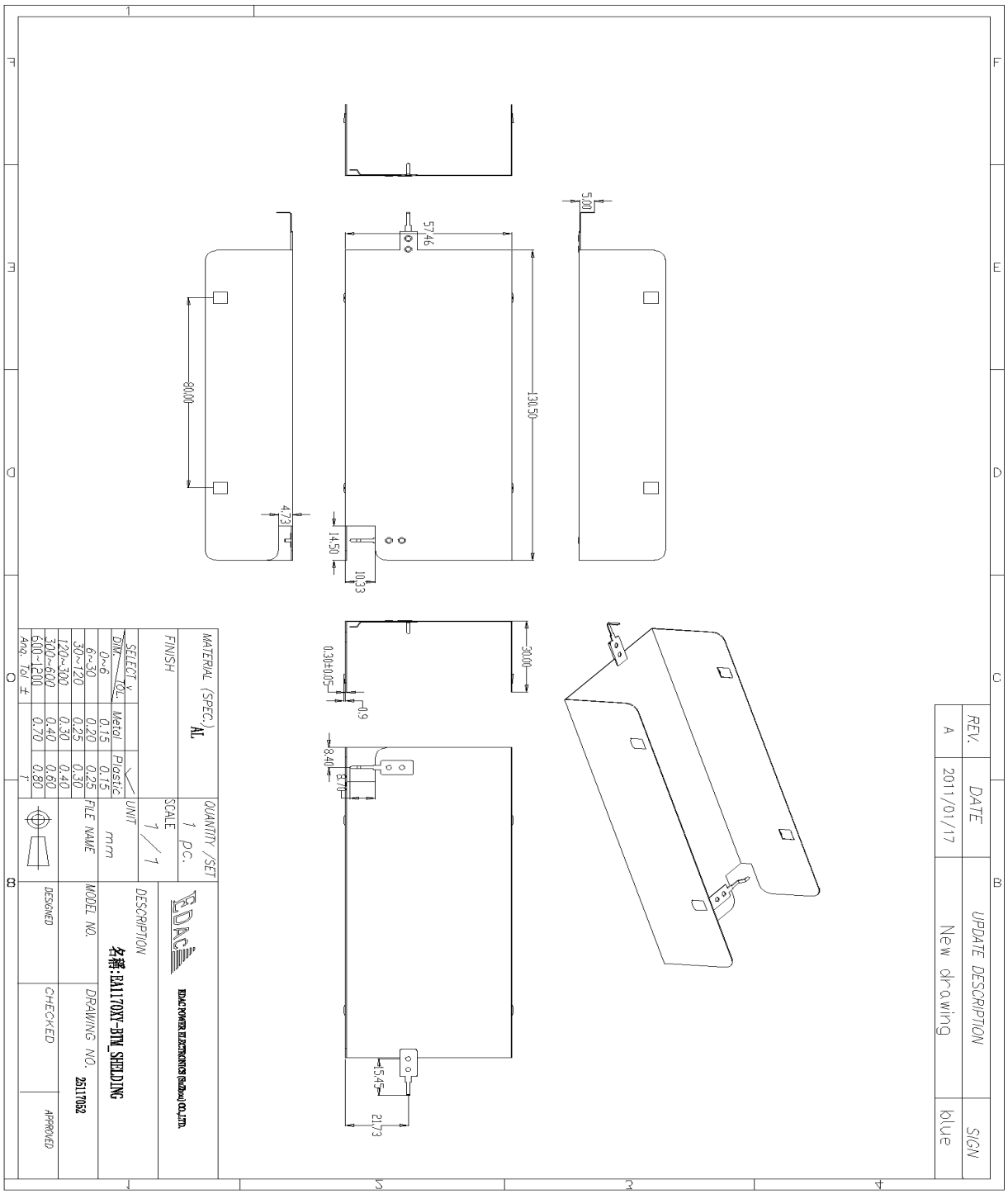
A1 2008/03/03 3.00mm->2.80mm
EDAC POWER ELECTRONICS (SuZhou) CO.,LTD.
DESCRIPTION low_case
MODEL NO. ea1135
DRAWING NO. 24111332
DESIGNED Kewer
CHECKED
APPROVED
MATERIAL (SPEC.) PC/ABS
FINISH
QUANTITY /SET 1 pc.
SCALE 1/1
UNIT mm
FILE NAME
SELECT Metal Plastic USR
DIM. TOL.
0~6 0.10 0.10
6~30 0.15 0.15
30~120 0.20 0.25
120~300 0.25 0.40
300~600 0.40 0.60
600~1200 0.70 0.80
Ang. Tol ± 21
備注:
1.表面光滑不能有毛刺
2.外觀無縮水或頂現象
3.內部配合處不得有披鋒毛邊
4.凡*標尺寸為重點尺寸,公差參照公差表
5.防火等級:94-V0

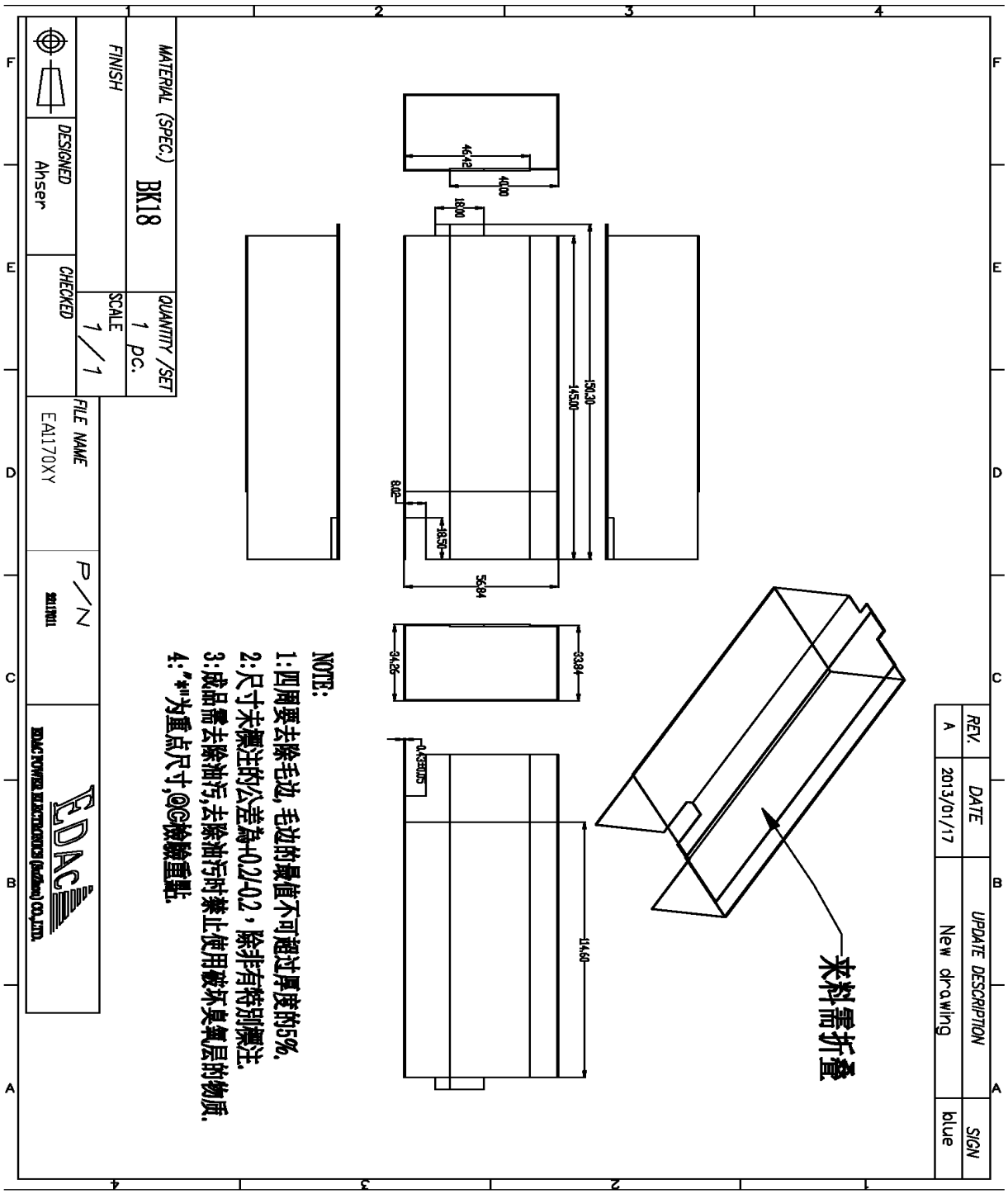
N181840120


14.50
58.06
130.50
80.00
3.50
0.30±0.05
21.53
18.00
REV.
DATE
UPDATE DESCRIPTION
SIGN
A
2012/01/17
New drawing
blue
MATERIAL (SPEC.) AL
FINISH
QUANTITY /SET
1 pc.
SCALE 1/1
UNIT mm
FILE NAME
DESCRIPTION
名稱:BA1170XY-TOP_SHIELDING
MODEL NO.
DRAWING NO.
25117051
DESIGNED
CHECKED
APPROVED
SELECT TOL.
DIM.
Metal
Plastic
0~6 0.15 0.15
6~30 0.20 0.25
30~120 0.25 0.30
120~300 0.30 0.40
300~600 0.40 0.60
600~1200 0.70 0.80
Ang. Tol ±
1°

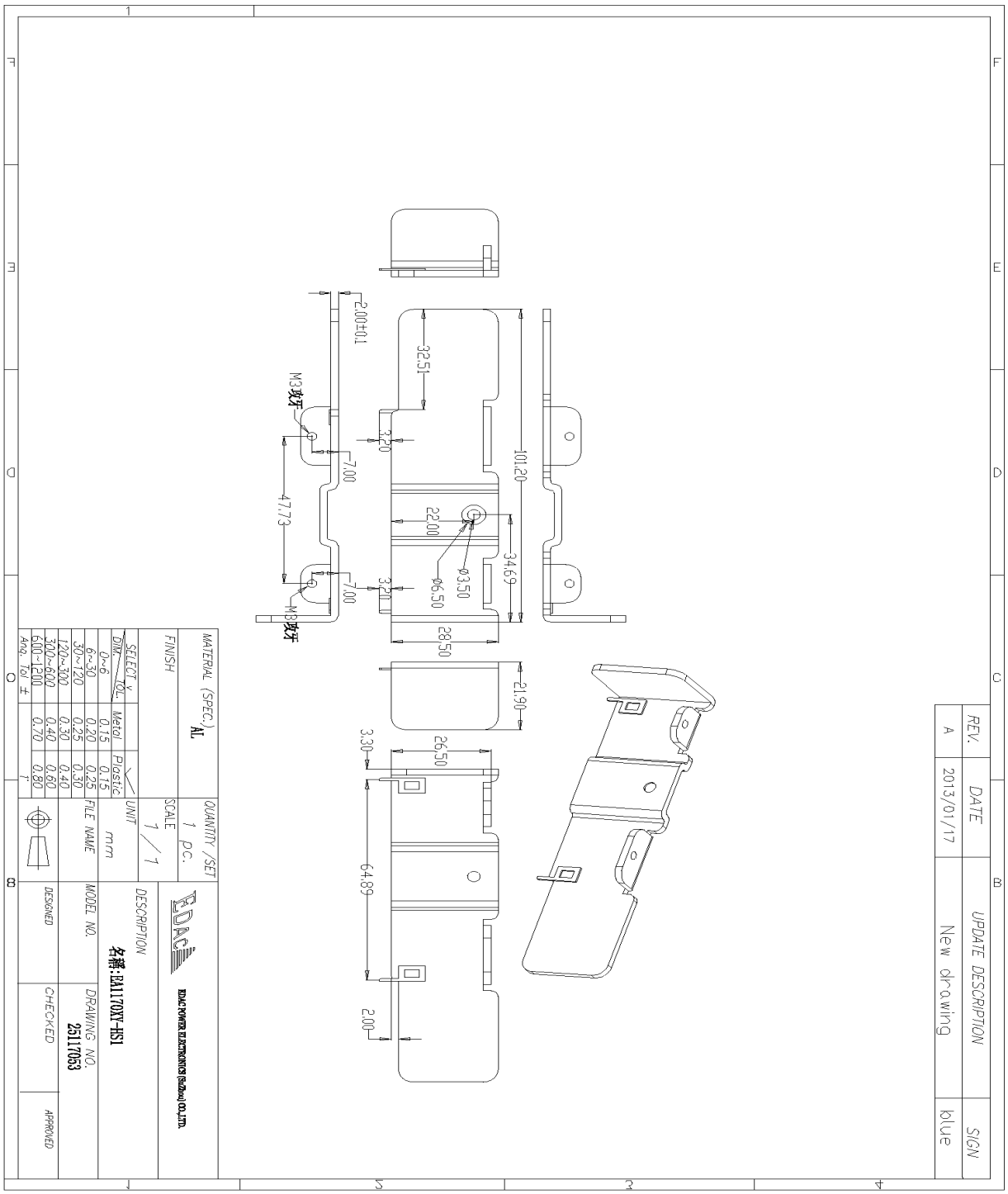
N181840121


REV.
DATE
UPDATE DESCRIPTION
SIGN
A
2011/01/17
New drawing
blue
MATERIAL (SPEC.) AL
FINISH
QUANTITY /SET
1 pc.
SCALE 1/1
UNIT mm
FILE NAME
MODEL NO.
DRAWING NO. 25117052
DESCRIPTION
名稱:BA1170XY-BTM_SHIELDING
EDAC POWER ELECTRONICS (SuZhou) CO.,LTD.
DESIGNED
CHECKED
APPROVED
SELECT TOL.
DIM.
Metal
Plastic
0~6
6~30
30~120
120~300
300~600
600~1200
Ang. Tol ±
0.15
0.20
0.25
0.30
0.40
0.60
0.80
0.15
0.25
0.30
0.40
0.60
0.80
5.00
57.46
130.50
80.00
4.73
14.50
10.33
0.30±0.05
0.9
30.00
8.40
8.70
15.45
21.73

N181840121


NOTE:
1:四周要去除毛边,毛边的最值不可超过厚度的5%.
2:尺寸未标注的公差为+0.2/-0.2,除非有特别标注.
3:成品需去除油污,去除油污时禁止使用破坏臭氧层的物质.
4:"*"为重点尺寸,◎检验重点.
来料需折叠
REV. DATE UPDATE DESCRIPTION SIGN
A 2013/01/17 New drawing blue
MATERIAL (SPEC.) BK18
FINISH
QUANTITY /SET 1 pc.
SCALE 1/1
DESIGNED Ahser
CHECKED
FILE NAME EA1170XY
P/N
EDAC POWER ELECTRONICS (JianGmen) CO.,LTD.

N181840122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DATE
UPDATE DESCRIPTION
SIGN
A
2013/01/17
New drawing
blue
MATERIAL (SPEC.) AL
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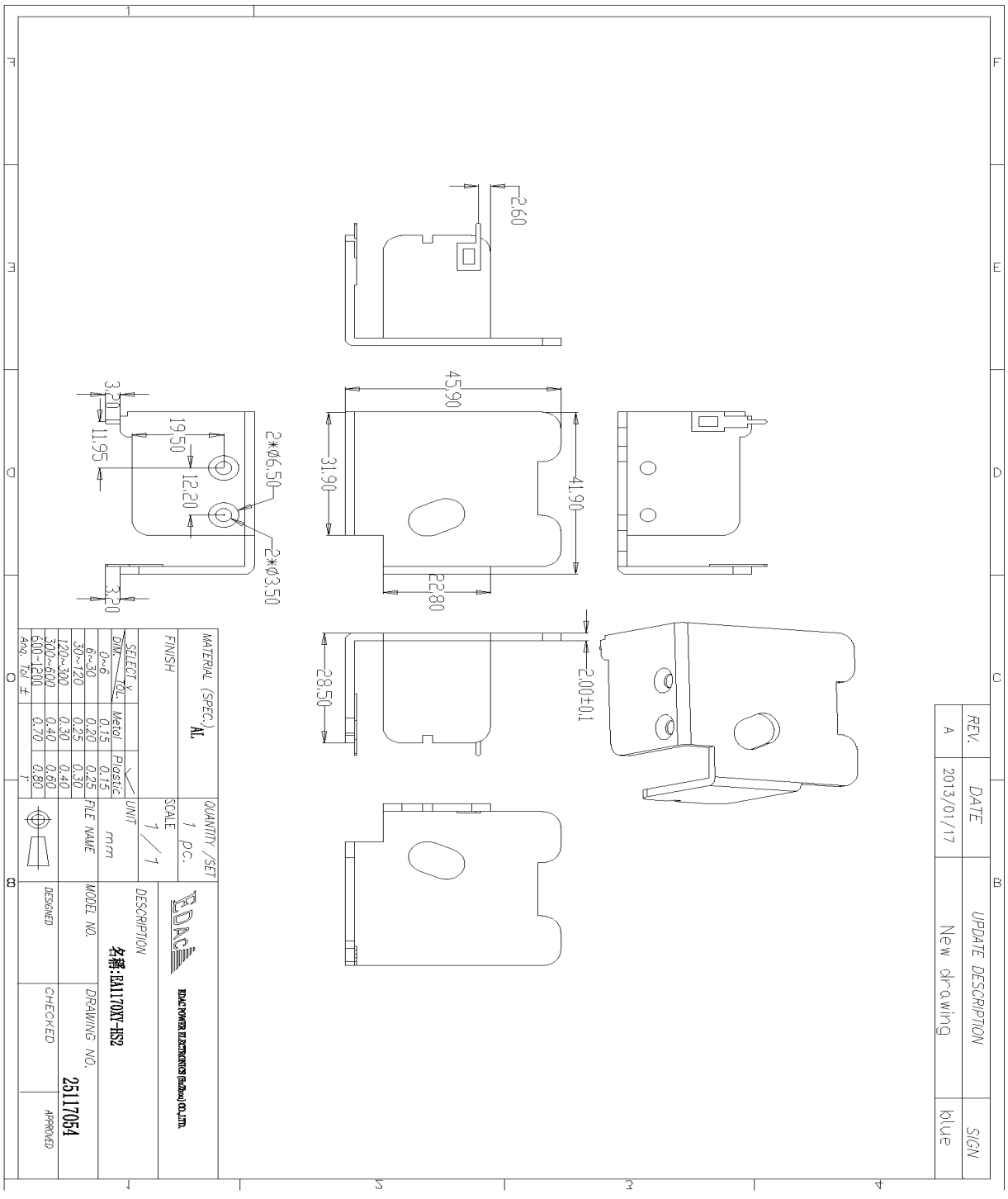
QUANTITY / SET 1 pc.
SCALE 1/1
UNIT mm
FILE NAME
DESCRIPTION 名稱:BA1170XY-HS1
MODEL NO.
DRAWING NO. 25117063
DESIGNED
CHECKED
APPROVED
SELECT TOL.
DIM. Metal Plastic
0~6 0.15 0.15
6~30 0.20 0.25
30~120 0.25 0.30
120~300 0.30 0.40
300~600 0.40 0.60
600~1200 0.70 0.80
Ang. Tol ±
1°
2.00±0.1
32.51
3.20
7.00
47.73
M3攻牙
101.20
22.00
34.69
Ø3.50
Ø6.50
28.50
21.90
26.50
3.30
64.89
2.00

N181840123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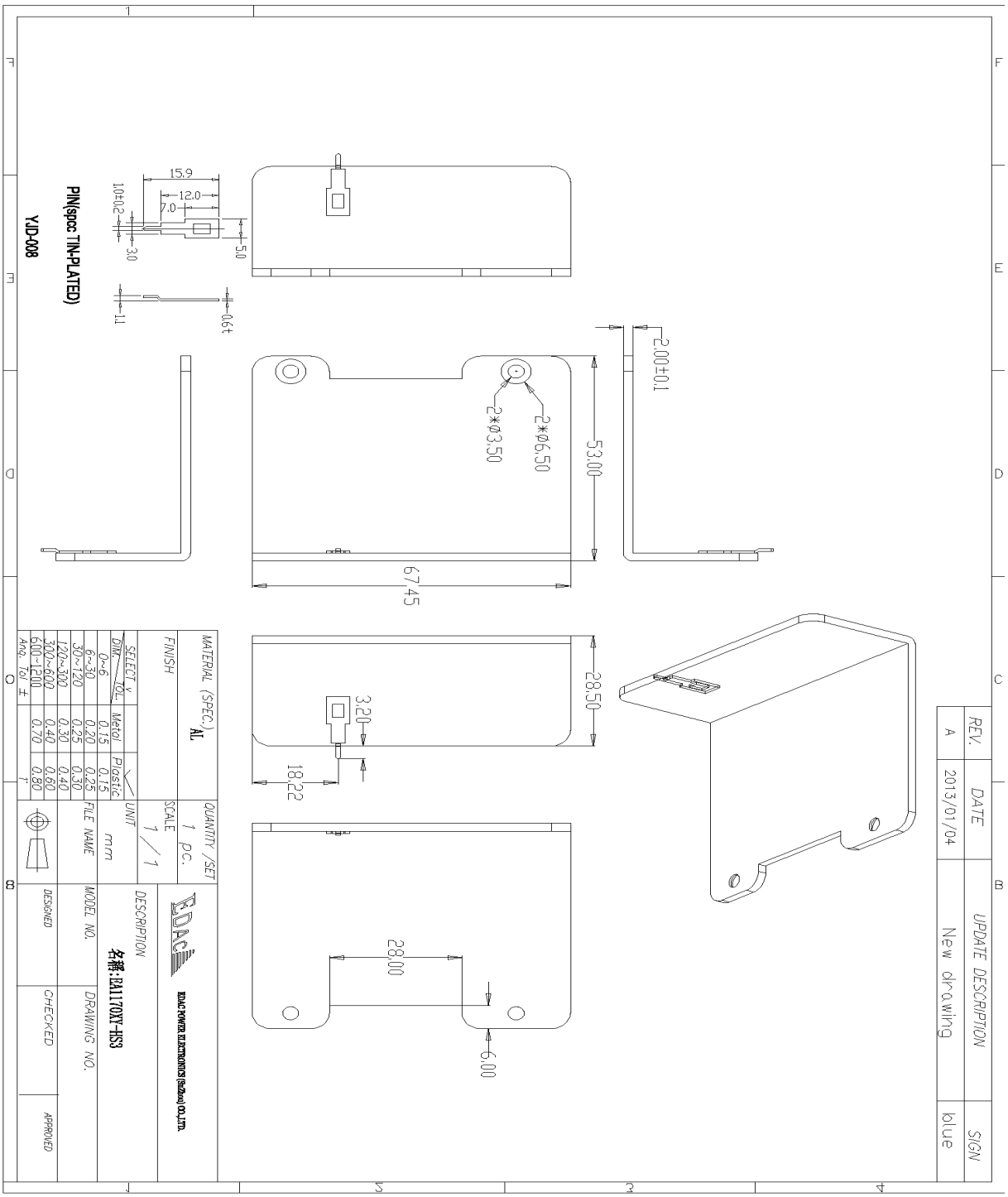
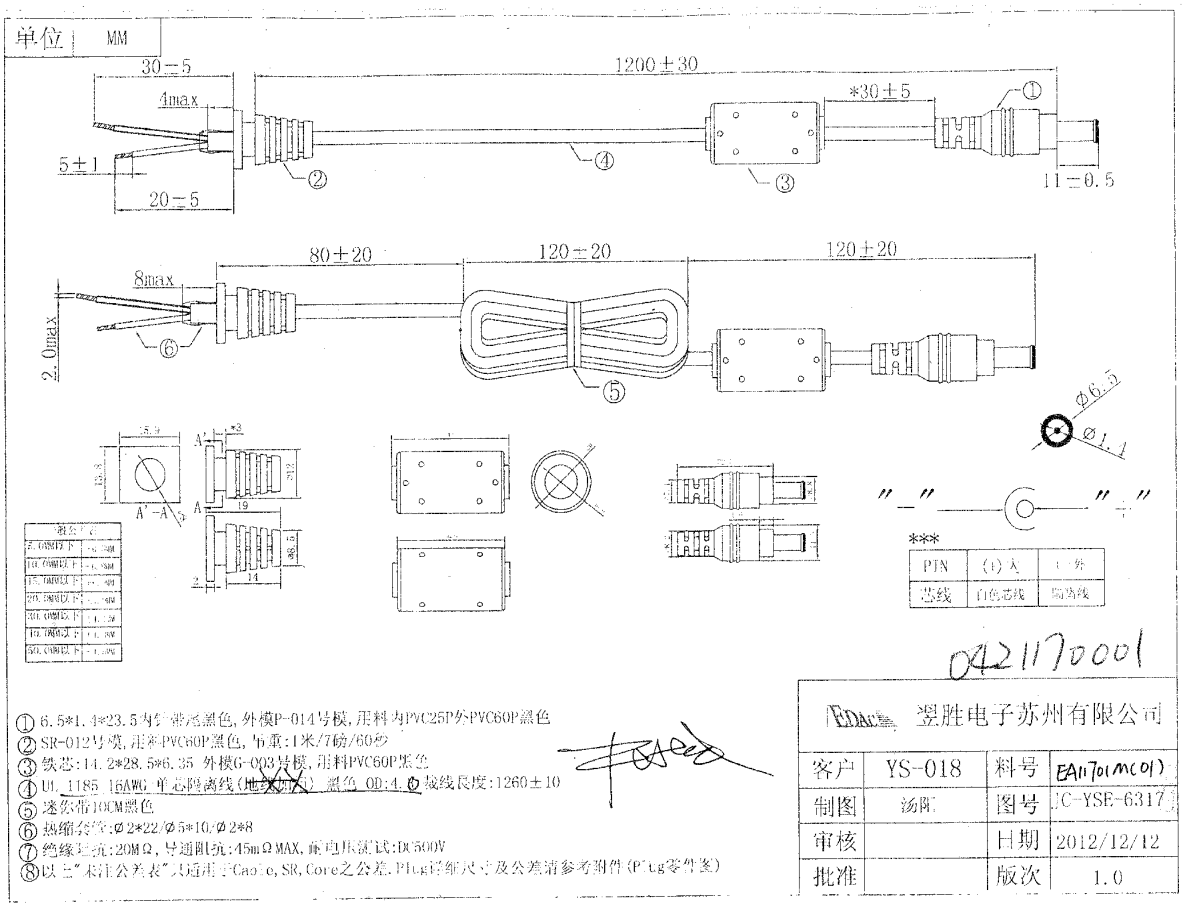
45.90
31.90
41.90
22.80
3.20
19.50
11.95
12.20
2*Ø6.50
2*Ø3.50
3.20
28.50
2.00±0.1
REV.
DATE
UPDATE DESCRIPTION
SIGN
A
2013/01/17
New drawing
blue
MATERIAL (SPEC.) AL
FINISH
QUANTITY /SET 1 pc.
SCALE 1/1
UNIT mm
FILE NAME
SELECT TOL.
DIM. Metal Plastic
0~6 0.15 0.15
6~30 0.20 0.25
30~120 0.25 0.30
120~300 0.30 0.40
300~600 0.40 0.60
600~1200 0.70 0.80
Ang. Tol ±
DESCRIPTION
名稱:EA11701XY-HS2
MODEL NO.
DRAWING NO.
25117054
DESIGNED
CHECKED
APPROVED

N181840124


PIN(spec TIN-PLATED)
Y.JD-008
15.9
12.0
7.0
10±0.2
3.0
5.0
1.1
0.6t
2.00±0.1
2*Ø3.50
2*Ø6.50
53.00
67.45
28.50
3.20
18.22
28.00
6.00
REV.
DATE
UPDATE DESCRIPTION
SIGN
A
2013/01/04
New drawing
blue
MATERIAL (SPEC.) AL
FINISH
QUANTITY / SET
1 pc.
SCALE
1/1
UNIT
mm
FILE NAME
DESCRIPTION
名稱:EA1170XY-HS3
MODEL NO.
DRAWING NO.
DESIGNED
CHECKED
APPROVED
SELECT "X"
Metal
Plastic
DIM
0~6
6~30
30~120
120~320
320~600
600~1200
Ang. Tol ±
0.15
0.20
0.25
0.30
0.40
0.60
0.80
0.15
0.25
0.30
0.40
0.60
0.80
1°
0.70

N181840125



042170001

① 6.5*1.4*23.5海宁带壳黑色，外模P-014号模，胚料为PVC25P外PVC60P黑色
② SR-012号壳，胚料PVC60P黑色，节重：1米/7磅/60秒
③ 铁芯：14.2*28.5*6.35 外模G-003号模，胚料PVC60P黑色
④ UL 1185 16AWG 单芯隔离线(地线加长) 黑色 OD:4.0 成线长度：1260±10
⑤ 迷你带10CM黑色
⑥ 热缩套管：Ø2*22/Ø5*10/Ø2*8
⑦ 绝缘电流：20MΩ，导通阻抗：45mΩ MAX，耐电压测试：DC500V
⑧以上"未注公差表"只适用于Cable, SR, Core之公差. Plug详细尺寸及公差请参考附件(Plug零件图)

翌胜电子苏州有限公司			
客户	YS-018	料号	EA11701M(01)
制图	汤阳	图号	JC-YSE-6317
审核		日期	2012/12/12
批准		版次	1.0

N181840126

A P P R O V A L

CUSTOMER : 翌胜

MATERIAL : CHOKE COIL

PART No. : 1811116001/181-036 EAIP5.1/60,,,,,,

SAMPLE NO: ST06845A-59TS-200U

DATE : 04-Oct-05

APPROVED BY

翌勝 94.11.28 承認章

CHECKED BY	APPROVED BY
刘军	吴世伟
04-Oct-05	

吴江市双菱电子(厂)有限公司
WUJIANG SUNYCORE ELECTRONICS COMPANY LTD.
TEL: 0512-63322515. 63324515 FAX: 0512-63322512. 63323516

专业生产及销售(铁氧体MnZn, 线圈变压器 铁硅铝, 铁镍钼, 高通量, 坡莫合金, 铁粉芯. 喷漆

承认书编号:SY05100406

SPECIFICATION FOR APPROVAL
BILL OF MATERIAL

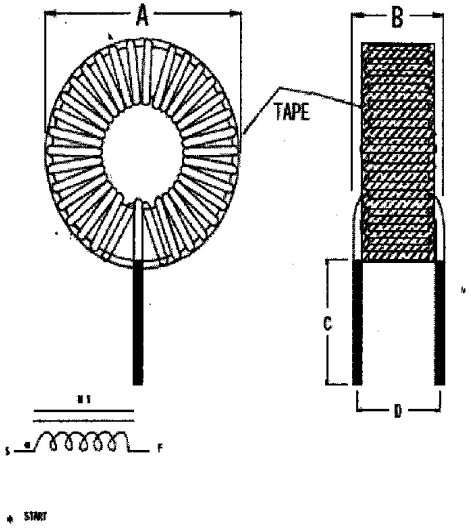
NO.	IETM	MATERIAL	SUPPLIER OF MATERIAL	CERT NO.
1	CORE	IRON CORE T68-45A	SUNYCORE CO., CEC CO.,	
2	WIRE	POLYURETHANE COPPER WIRE 2UEW	ASIA PACIFIC DA YANG HONG SI CO.,	E214423
3	TAPE	1350F-1	YAMING(YAHUA) CO., 3M CO.,	E17385
4	VARNISH	468-2FC	RIPLET RESIN CO., LTD	E81777(N)

DOC NO:181-036

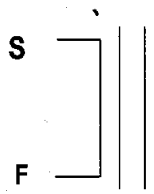
SUNYCORE ELECTRONICS CO., LTD

SPECIFICATION FOR APPROVAL

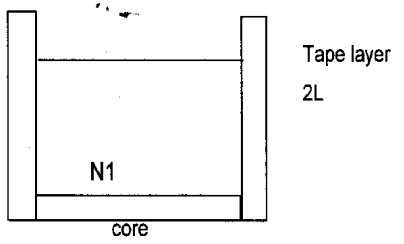
1.DIMENSION: (UNIT: mm)



2.SCHEMATIC



3.WINDING



4.WINDING TABLE AND NOTE

WINDING NO	Margin Tape	pin	wire&wire copper	TURNS	winding Tapre	Tape Layer	REMARK
N1	0	S--F	0.90 ∮ *1 P	59TS REF	均绕	2TS	1.圈数以内圈计算. 2.绕线时,勾三层,开始两层为密绕,第三层为均绕. 3.产品须含浸.

5.ELECTRICAL CHARACTERISTIC/TEMP:AT25℃ HUMIDTY:65±20% RH REV:A1

MEAS. ITEM	DIMENSION UNIT:mm						
SPEC / NO.	A	B	C	D	E	F	G
	22.5MAX	13.0MAX	4.5±0.5	10±0.3			
TEST TOOL:	CALLIPERS						
DOC NO: 181-036							

TEST ITEM	TEST CONDITION	RESULT
INDUCTANCE	&1KHZ 0.25V 50欧内阻(S--F)	200uH MIN
HI-POTTEST		
DC R	(S--F)	63ΩMAX

SUNYCORE ELECTRONICS CO., LTD TEL:0512-63322515/63324515 FAX:0512-63322512

N181840127

EDAC ELECTRONICS,INC.

Approval Sheet NO.:
Issue Date: 2013-2-18

COMPONENT APPROVAL SHEET

PART NO	1811117001
SPEC. REV.	A
MODEL	EA11701 Series
MAKER	EDAC
MAKER P/N	REF AVL
DESCRIPTION	CHOKE 181-313 RM8 85UH

REMARKS:

1. THE PURPOSE OF APPROVAL:(此份承認書發行目的)

■NEW COMPONENT.(新零件承認)

□ RUNNING CHANGE.(消耗庫存後，規格變更，前承認書作廢)

□ CHANGE IMMEDIATELY. (規格立即變更，前承認書作廢)

□ AVL REVISE.(修訂廠商一覽表，前承認書作廢)

2. DISTRIBUTION: ■PUR ■IQC

3. NEW COMPONENT FIRST USE,TIGHTEN UP ON CHECK.(新型元件，第一次使用。請加強檢驗！)

4. INCOMING REQUIREMENT: ■ROHS MATERIAL □NON-ROHS MATERIAL

NOTE :

■ Approval sheet total 15 pages

■ Test data sheet total 2 page.

□ Attached samples are for IQC reference.

Having the following safety license

■UL ( ) □CSA ( )

□TUV ( ) □CUL ( )

□VDE ( ) □SEV ( )

□CB CERT( ) □T-MARK( )

SIGNATURE		
	SUZHOU	TW
Prepared By		
ME / EE Sign		
Approved By		

EDAC ELECTRONICS,INC.

APPROVAL REVISIONS

DCN NO.	REV.	DESCRIPTION	DATE	MADE BY	CHKD BY
	A	Initial	2/18'13	邵元珍	

APPROVED VENDER LIST

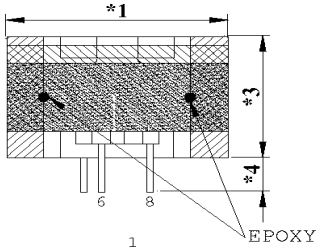
SPEC. REV.	Final App'D	MAKER	MAKER P/N	CE ENGR	APP'D DATE
	●	EDAC/鑫裕祥		邵元珍	2/18'13

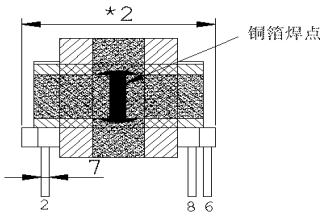
REV.:01 表單編號：FR-TS03-05

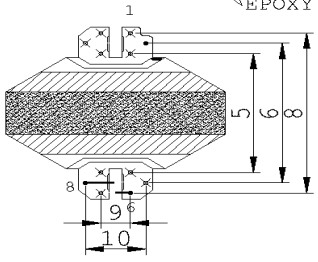
SPECIFICATION FOR APPROVAL

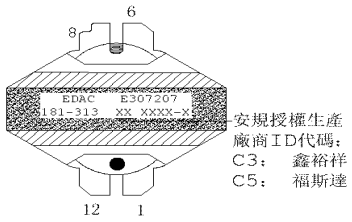
PART NO.	1811117001	Drawing No.	181-313
ISSUE DATE	2013-2-18	SPEC. REV.	A

1. DIMENSION:









UNIT:mm	
*1	24.8 MAX
*2	24.8 MAX
*3	17.5 MAX
*4	3.2 ±0.3
5	14.4 ±0.5
6	18.0 ±0.5
7	0.60 ±0.1
8	21.6 ±0.5
9	3.6 ±0.5
10	7.2 ±0.5

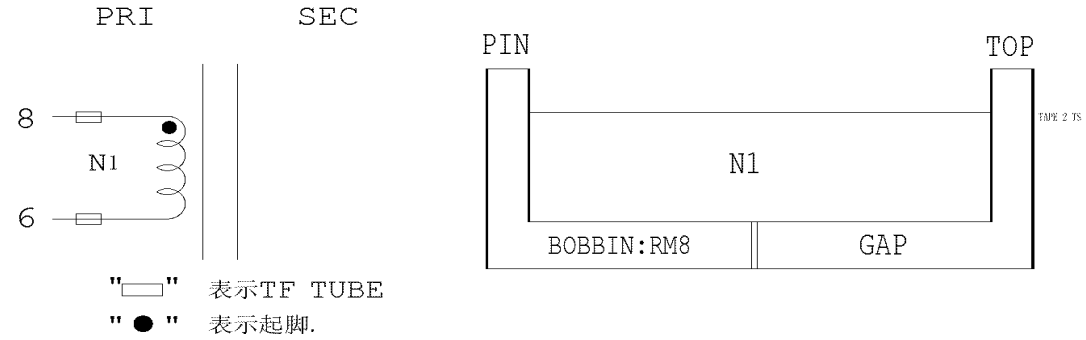
NOTE:
1. PIN1, 3, 4, 5, 7, 9, 10, 11, 12CUT OFF.
2. 研磨放在頂部，未磨CORE放在底部,磁芯結合處須點4點黑膠固定，中柱需點508白膠。
3. 沿CORE方向包自粘銅箔(0.025*6mm/W)1TS →沿線包方向包自粘銅箔(0.025*6mm/W)1TS，铜箔交叉处需要焊接→沿CORE方向包膠帶2TS(11mm/W)→沿線包方向包膠帶2TS(11mm/W)
4. 標籤貼于頂部，其中"XXXX"表示年和周期,
-X表示生产厂商代碼.
5. 飛線須依PCB成型(如圖). 且產品須平貼PCB.
6. IQC检验时以实插PCB板为准.
7. 必须用吸塑盒包装:
a. 装满后上面需加一层薄膜，再盖上盖板，用透明胶带成“十字”形封好;
b. 包装、搬运过程中注意不要把PIN脚碰歪.

N181840128

SPECIFICATION FOR APPROVAL

PART NO.	1811117001	Drawing No.	181-313
ISSUE DATE	2013-2-18	SPEC. REV.	A

2. SCHEMATIC:



"▭" 表示TF TUBE
" ● " 表示起脚.

NO	WIRE SIZE	START	END	TURNS	LAYER	INSULATION	NOTE
NO							
N1	0.15mm*20P (LITZ)	8	6	30.0Ts	4	TAPE 2T	密绕

NOTE:
1. 所有出入线均需加TFL TUBE.

SPECIFICATION FOR APPROVAL

PART NO.	1811117001	Drawing No.	181-313
ISSUE DATE	2013-2-18	SPEC. REV.	A

3. ELECTRICAL CHARACTERISTICS:

TEMPERATURE AT 25 ℃ HUMIDITY AT 65 +/-20% RH

TEST INSTRUMENT	CHEN HWA YD2776 LCR CHEN HWA 6882 LCR		CHEN HWA TH2511	CHEN HWA YG-108
ITEM / WINDING	3-1. INDUCTANCE: @60KHz 0.25V	3-2. Q VALUE: @	3-3. DC RESISTANCE:	3-4. VOLTAGE RATIO:
8-----6	85uH±5%		70.0 mΩ MAX	

3-5. LEAKAGE INDUCTANCE: @ 60KHz 0.25V	SHORT: SEC	LK	TEST INSTRUMENT

TEST INSTRUMENT	CHEN HWA DF2670A	CHEN HWA DF2607A	
ITEM / TERMINAL	3-6. HI-POT TEST: AC 50/60Hz 5mA 60SEC	3-7. INSULATION RESISTANCE: @ DC 500V	
P-----C	1500V		

N181840128

SPECIFICATION FOR APPROVAL

PART NO.	1811117001	Drawing No.	181-313
ISSUE DATE	2013-2-18	SPEC. REV.	A

5. MATERIAL:

NO	ITEM	SIZE	MATERIAL	RATING	MANUFACTURER	UL FILE NO
1	BOBBIN	RM8	T375J	150℃	CHANG CHUN PLASTICS CO LTD	E59481
2	CORE	FERRITE CORE RM8	NH2B NC-2H AF-40		LIANFENG CO., NICERA CO., MEC CO.,	
3	WIRE	0.15mm*25P	POLYURETHANE ENAMELLED WIRE(UEW)	130℃	KUNSHAN DELICONN ELECTRONICAL SCIENCE & TECHNOLOGY CO LTD	E250708
4	TAPE	0.025mm	CT-280 1350F-1	 130℃	JINGJIANG YAHUA CO., 3M CO.,	E165111 E17385
5	VARNISH		468-2FC(+)	130℃	ELANTAS ELECTRICAL INSULATION ELANTAS PDG INC	E87039
6	TUBE		TFL	200℃	GREAT HOLDING CO.,	E156256
8	COPPER	0.025mm/t*6mm/W			SHANG HAI FUTAI CO., OR EQUIVALENT	
9	EPOXY		E-500		DONGGUAN EATTO ELECTRONIC MATERIALS CO LTD	E218090
			508		DONGBU	E108491

EDAC ELECTRONICS,INC.

Approval Sheet NO.:RD-AP10031165 4C
Issue Date: 4/23'10

COMPONENT APPROVAL SHEET

PART NO	1811113502
SPEC. REV.	C
MODEL	EA11351D(05) & EA11351D(06)
MAKER	双菱
MAKER P/N	REF AVL
DESCRIPTION	CHOKE 181-250 T14*9*5C 0.6*17T 1mH

翌勝 98.4.29 承認章

REMARKS:

1. THE PURPOSE OF APPROVAL:(此份承認書發行目的)

☐ NEW COMPONENT.(新零件承認)

■ RUNNING CHANGE.(消耗庫存後，規格變更，前承認書作廢)

■ CHANGE IMMEDIATELY. (規格立即變更，前承認書作廢)

■ AVL REVISE.(修訂廠商一覽表，前承認書作廢)

2. DISTRIBUTION: ■PUR ■IQC

3. NEW COMPONENT FIRST USE,TIGHTEN UP ON CHECK.(新型元件，第一次使用。請加強檢驗！)

4. INCOMING REQUIREMENT: ■ROHS MATERIAL ☐NON-ROHS MATERIAL

NOTE :

■ Approval sheet total 61 pages
■ Test data sheet total 1 page.
☐ Attached samples are for IQC reference.

Having the following safety license

■UL ( ) ☐CSA ( )
☐TUV ( ) ☐CUL ( )
☐VDE ( ) ☐SEV ( )
☐CB CERT( ) ☐T-MARK( )

SIGNATURE	SUZHOU	TW
Prepared By	仇仕丽4/23'10	
ME / EE Sign		
Checked By		
Approved By	經理 2010-4-23 朱重榮	

REV.: 04

表单编号：FR-TS03-04

EDAC ELECTRONICS,INC.

Approval Sheet NO.: RD-AP10031163 4C
Issue Date: 4/23'10

COMPONENT APPROVAL SHEET

PART NO	1811113502
SPEC. REV.	C
MODEL	EA11351D(05) & EA11351D(06)
MAKER	双菱
MAKER P/N	REF AVL
DESCRIPTION	CHOKE 181-250 T14*9*5C 0.6*17T 1mH

REMARKS:

1. THE PURPOSE OF APPROVAL:(此份承認書發行目的)

☐ NEW COMPONENT.(新零件承認)

■ RUNNING CHANGE.(消耗庫存後，規格變更，前承認書作廢)

■ CHANGE IMMEDIATELY. (規格立即變更，前承認書作廢)

■ AVL REVISE.(修訂廠商一覽表，前承認書作廢)

2. DISTRIBUTION: ■PUR ■IQC

3. NEW COMPONENT FIRST USE,TIGHTEN UP ON CHECK.(新型元件，第一次使用。請加強檢驗！)

4. INCOMING REQUIREMENT: ■ROHS MATERIAL ☐NON-ROHS MATERIAL

NOTE :

■ Approval sheet total 61 pages
■ Test data sheet total 1 page.
☐ Attached samples are for IQC reference.

Having the following safety license

■UL ( ) ☐CSA ( )
☐TUV ( ) ☐CUL ( )
☐VDE ( ) ☐SEV ( )
☐CB CERT( ) ☐T-MARK( )

SIGNATURE		
	SUZHOU	TW
Prepared By	仇仕丽4/23'10	
ME / EE Sign		
Checked By		
Approved By	經理 2010-4-23 朱重榮	

REV.: 04

表单编号：FR-TS03-04

N181840129

EDAC ELECTRONICS,INC.

APPROVAL REVISIONS

DCN NO.	REV.	DESCRIPTION	DATE	MADE BY	CHKD BY
	A	Initial	3/29'10	仇仕丽	
	B	厂商要求成品圈数增加2圈，故重新承认	4/12'10	仇仕丽	經理 朱重榮
	C	定义DCR从18毫欧 MAX变更为25毫欧 MAX	4/23'10	仇仕丽	

APPROVED VENDER LIST

SPEC. REV.	Final App'D	MAKER	MAKER P/N	CE ENGR	APP'D DATE
	●	双菱		仇仕丽	4/23'10

COMPONENT TEST DATA SHEET

EDAC P/N: 1811113502 Maker: 双菱 Test Date:4/23'10

Conclusion: ■APPROVAL □CONDITION APPROVED □REJECTED

Test Condition: 25℃ 65RH

NO	SPEC(mm)	SAMPLE NO.					JUDGE	
		1	2	3	4	5	ACC	REJ.
A	17.5max	16.58	16.59	16.58	16.59	16.58	ACC	
B	9max	8.11	8.12	8.11	8.11	8.12	ACC	
C	5+/-0.5	4.82	4.83	4.83	4.82	4.83	ACC	
D	6+/-0.5	6.06	6.07	6.06	6.07	6.07	ACC	
E	8+/-0.5	7.82	7.82	7.83	7.82	7.83	ACC	
G	實物裝配	OK	OK	OK	OK	OK	ACC	
DCR(1-2)	25mΩ MAX	17.21	17.22	17.21	17.21	17.22	ACC	
DCR(3-4)	25mΩ MAX	16.95	16.96	16.96	16.95	16.96	ACC	
L(1-2) 1KHz/0.25V	1mH MIN	1.20	1.21	1.20	1.21	1.21	ACC	
L(3-4) 1KHz/0.25V	1mH MIN	1.25	1.26	1.25	1.25	1.26	ACC	
Hi-pot Test	COIL-CORE 0.5KV 5mA 60S	pass	pass	pass	pass	pass	ACC	
	COIL-COIL 0.5KV 5mA 60S	pass	pass	pass	pass	pass	ACC	

TESTED BY: 仇仕雨 4/23

經理 朱重榮

N181840129

EDAC ELECTRONICS,INC.

COMPONENT (Cpk) DATA SHEET

PART NO.:181-250 (1811113502) MAKER SUNY PREPARED BY: Shili.Qiu

Part Description : CHOKE REV: C CHECKED BY:

Marker P/N: Date: 2010.4.23 APPROVED BY:

	A	B	C	D	E	DCR(1-2)	DCR(3-4)	L(1-2) 1KHZ 0.25V	L(3-4) 1KHZ 0.25V
Item	17.5max	9max	5+/-0.5	6+/-0.5	8+/-0.5	25mΩ MAX	25mΩ MAX	1mH MIN	1mH MIN
1	16.74	8.17	4.99	6.17	7.94	17.27	17.13	1.23	1.24
2	16.51	8.11	4.87	6.09	7.88	17.95	16.91	1.25	1.21
3	16.58	8.14	4.95	6.06	7.84	17.32	16.98	1.23	1.25
4	16.64	8.17	4.82	6.13	7.95	17.21	17.04	1.20	1.29
5	16.58	8.15	4.98	6.03	7.82	17.25	16.97	1.29	1.33
6	16.75	8.12	4.84	6.17	7.91	17.31	16.95	1.26	1.27
7	16.59	8.13	4.91	6.15	7.88	17.26	17.16	1.28	1.26
8	16.68	8.19	4.88	6.07	7.96	17.22	17.09	1.21	1.36
9	16.76	8.14	4.83	6.01	7.83	17.24	17.19	1.27	1.22
10	16.63	8.16	4.87	6.12	7.99	17.33	16.96	1.26	1.33
11	16.74	8.17	4.99	6.17	7.94	17.27	17.13	1.23	1.24
12	16.51	8.11	4.87	6.09	7.88	17.95	16.91	1.25	1.21
13	16.58	8.14	4.95	6.06	7.84	17.32	16.98	1.23	1.25
14	16.64	8.17	4.82	6.13	7.95	17.21	17.04	1.20	1.29
15	16.58	8.15	4.98	6.03	7.82	17.25	16.97	1.29	1.33
16	16.75	8.12	4.84	6.17	7.91	17.31	16.95	1.26	1.27
17	16.59	8.13	4.91	6.15	7.88	17.26	17.16	1.28	1.26
18	16.68	8.19	4.88	6.07	7.96	17.22	17.09	1.21	1.36
19	16.76	8.14	4.83	6.01	7.83	17.24	17.19	1.27	1.22
20	16.63	8.16	4.87	6.12	7.99	17.33	16.96	1.26	1.33
21	16.74	8.17	4.99	6.17	7.94	17.27	17.13	1.23	1.24
22	16.51	8.11	4.87	6.09	7.88	17.95	16.91	1.25	1.21
23	16.58	8.14	4.95	6.06	7.84	17.32	16.98	1.23	1.25
24	16.64	8.17	4.82	6.13	7.95	17.21	17.04	1.20	1.29
25	16.58	8.15	4.98	6.03	7.82	17.25	16.97	1.29	1.33
26	16.75	8.12	4.84	6.17	7.91	17.31	16.95	1.26	1.27
27	16.59	8.13	4.91	6.15	7.88	17.26	17.16	1.28	1.26
28	16.68	8.19	4.88	6.07	7.96	17.22	17.09	1.21	1.36
29	16.76	8.14	4.83	6.01	7.83	17.24	17.19	1.27	1.22
30	16.63	8.16	4.87	6.12	7.99	17.33	16.96	1.26	1.33
Min.	16.51	8.11	4.82	6.01	7.82	17.21	16.91	1.20	1.21
Max.	16.76	8.19	4.99	6.17	7.99	17.95	17.19	1.29	1.36
Xbar	16.65	8.15	4.89	6.10	7.90	17.34	17.04	1.25	1.28
S	0.08	0.02	0.06	0.05	0.06	0.21	0.10	0.03	0.05
UCL	17.50	9.00	5.50	6.50	8.50	25.00	25.00	2.00	2.00
LCL	16.00	8.00	4.50	5.50	7.50	16.00	16.00	1.00	1.00
Ca	0.14	0.70	0.21	0.20	0.20	0.70	0.77	0.50	0.45
Cp	3.06	6.95	2.82	3.03	2.92	7.08	15.78	5.81	3.43
CPL	2.64	2.06	2.22	3.64	2.33	2.10	3.64	2.88	1.89
CPU	3.49	11.84	3.41	2.43	3.50	12.06	27.92	8.74	4.96
Cpk	2.64	2.06	2.22	2.43	2.33	2.10	3.64	2.88	1.89
Result	OK	OK	OK	OK	OK	OK	OK	OK	OK

NOTE:未注明尺寸的单位为mm.

CONCLUSION : PASS

N181840129

SUNYCORE ELECTRONICS CO., LTD
SPECIFICATION

CUSTOMER	EDAC	**CUSTOMER P/N**	181-250
ISSUE DATE	2010-4-23	**SUNYCORE P/N**	181-250

SOURCE CONTROL DRAWING

REVISIONS

项次	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
0	2010-3-23	王亚丽	夏金海	刘军	发行
1	2010-4-12	王亚丽	夏金海	刘军	圈数由原来15TS现在改为17TS 测试条件由10KHZ 0.05V现改为1KHZ 0.25V

SPECIFICATION FOR APPROVAL
BILL OF MATERIAL

NO.	ITEM	MATERIAL	SUPPLIER OF MATERIAL	CERT NO.
1	CORE	FERRITE CORE T14*9*5+C SL05K	SUNYCORE	
2	WIRE	POLYURETHANE COPPER WIRE 2UEW 130℃	HENG YA ELECTRIC CO.,LTD	E245514
3	TRIPLE WIRE	TRIPLE INSULATION TEX-E	FURUKAWA ELECTRIC CO.,LTD	E206440
4	EPOXY	3300A/B	EATTO ELECTRIC CO.,LTD	E253983

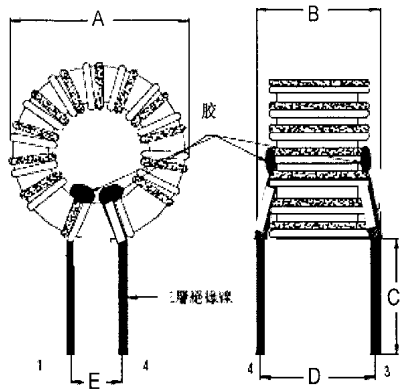
DOC NO:181-250

雙菱電子 SUNYCORE ELECTRONICS CO., LTD

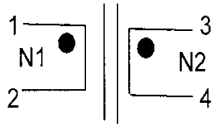
INSPECTOR:王亞麗 CHECKED BY:夏金海 APPROVED BY:劉軍

SPECIFICATION FOR APPROVAL

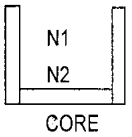
1.] 1.PHYSICAL DIMENSION(外观尺寸图)



2.SCHEMATIC(线路图)



3.WINDING(剖面图)



4.WINDING TABLE AND NOTE(绕线结构)

Winding NO (组别)	Margin Tape (醋酸布)	PIN (脚位)	Wire&Wire Copper (绕线X股数)	TURNS (圈数)	Winding Type (绕线方	Tape Layer (胶带层次)	TUBE (套管)
N1	N/A	1--2	∮0.6*1P	17TS	双组并绕	N/A	N/A
N2	N/A	3--4	∮0.6*1P (TEXE)	17TS		N/A	N/A

NOTE:

1.N2为三层绝缘线,须先脱皮后镀锡.

2. 产品须点胶固定,一箱1056PCS,一层96PCS,产品以试插PCB为准.

5.ELECTRONICAL CHARACTERISTIC(电器特性)TEMP:AT25℃±3℃ HUMIDITY AT:65±20% RH

MEAS. ITEM	DIMENSION UNIT:mm						
SPEC NO.	A	B	C	D	E		
	17.5MAX	9MAX	5.0±0.5	6.0±0.5	8.0±0.5		
TEST TOOL:	CALLIPERS						
	DOC NO: 181- 250 REV:000						

TEST ITEM(测试项目)	TEST CONDITION(测试条件)	RESULT (条件范围值)
INDUCTANCE(电感)	1KHZ 0.25V(1-2) (3-4) GKT1062A 50欧内阻	1mH MIN
HI-POT TEST (耐压)	5mA 60SEC(AC)	COIL--COIL COIL--CORE 0.5KV
DC R (电阻)	(1-2) (3-4)	25毫欧MAX

SUNYCORE ELECTRONICS CO., LTD TEL:0512-63322515 FAX:0512-63322512

DRAWER: 王亚丽 CHECKED: 夏金海 APPROVED:刘军

N181840129

SUNYCORE ELECTRONICS CO., LTD

TEST REPORT

DOC NO: 181- 250

MEAS. ITEM	DIMENSION UNIT:mm							L(1-2)(4-3)	DC R	TURN	Dielectric Strength	RESULT
SPEC / NO.	A	B	C	D	E			1KHZ 0.25V(1-2) (3-4) 1mH MIN	(1--4)(2--3) 30毫欧MAX	φ 0.6*2P 17TS	COIL -- CORE 500V/s COIL -- COIL 500V/s	
	17.5MAX	9MAX	5.0±0.5	6.0±0.5	8.0±0.5							
1	16.09	7.11	5.30	6.33	8.25			1.23	15.24	OK	OK	OK
2	16.12	7.54	5.34	6.14	8.14			1.36	15.47	OK	OK	OK
3	16.25	7.25	5.02	6.21	8.23			1.42	15.26	OK	OK	OK
4	16.06	7.14	5.40	6.07	8.07			1.24	15.33	OK	OK	OK
5	16.07	7.23	5.40	6.12	8.14			1.24	15.35	OK	OK	OK
TEST TOOL:	TEMP:AT25℃±3℃ HUMIDITY AT:65±20% RH/TEST INSTRUMENT							GKT-1062A 50欧	HK3250		CS2670A	

INSPECTOR: 王亞麗 CHECKED BY: 夏金海 APPROVED BY:劉軍

N181840129

SPECIFICATION FOR APPROVAL
BILL OF MATERIAL

NO.	ITEM	MATERIAL	SUPPLIER OF MATERIAL	CERT NO.
1	CORE	FERRITE CORE T20*12*8+C SL15K	SUNYCORE CO.,	
2	WIRE	POLYURETHANE COPPER WIRE 2UEW 130℃	HENG YA ELECTRIC CO.,LTD	E221455
3	EPOXY	3300A/B	EATTO ELECTRIC CO.,LTD	E253983
4	PCB	FR-4	KINGBOARD CO.,LTD	E123995
5	TAPE	280	STICKING TAPE CO.,LTD	E165111

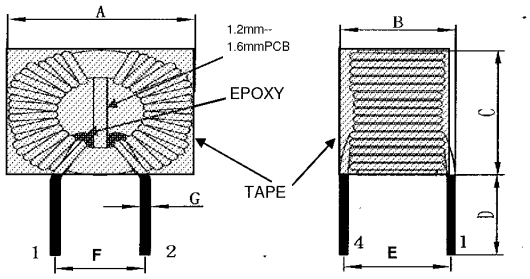
DOC NO:181-202

雙菱電子 SUNYCORE ELECTRONICS CO., LTD

INSPECTOR:钟伟星 CHECKED BY:夏金海 APPROVED BY:刘军

SPECIFICATION FOR APPROVAL

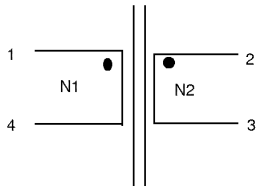
1.PHYSICAL DIMENSION (外观尺寸图)



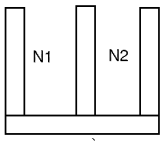
NOTE:

1.产品以外圈计算.
2.绕线须平整美观,漆包层不可破损或脱落.
3. 產品出入線需點膠固定, 产品外围需包2TS胶布.
4.成品以試插PCB爲准.

2.SCHEMATIC:(线路图)



3.WINDING(剖面图)



4.WINDING TABLE AND NOTE(绕线结构)

Winding NO (组别)	Margin Tape (醋酸布)	PIN (脚位)	Wire&Wire Copper (绕线X股数)	TURNS (圈数)	Winding Type (绕线方式)	Tape Layer (胶带层次)	TUBE (套管)
N1	N/A	1--4	0.65*1P 2UEW	45±3TS	钟点式	20mm	N/A
N2	N/A	2--3	0.65*1P 2UEW	45±3TS	钟点式	20mm	N/A

5.ELECTRONICAL CHARACTERISTIC(电器特性)
TEMP:AT25℃HUMIDITY AT:65±20% RH

MEAS. ITEM	DIMENSION UNIT:mm						
SPEC NO.	A	B	C	D	E	F	G
	22MAX	14MAX	22MAX	5±1	10±0.5	11.5±0.5	0.65±0.05
TEST TOOL:	CALLIPERS						
DOC NO:181-202							

TEST ITEM(测试项目)	TEST CONDITION(测试条件)	RESULT (条件范围值)
INDUCTANCE (电感)	1KHZ 0.25V(1-4)/(2-3)	25mH MIN
	GKT1062A 50欧	
HI-POT TEST (耐压)	50HZ 3S COIL-COIL CORE-COIL 500V	5mA
DC R (电阻)	(1-4)/(2-3)	150mΩ MAX

SUNYCORE ELECTRONICS CO., LTD TEL:0512-63322515 FAX:0512-63322512

DRAWER:钟伟星 CHECKED:夏金海 APPROVED:刘军

N181840130

EDAC ELECTRONICS,INC.

Approval Sheet NO.:
Issue Date: 2012-12-13

COMPONENT APPROVAL SHEET

PART NO	1831117001
SPEC. REV.	A
MODEL	EA11701 Series
MAKER	EDAC
MAKER P/N	REF AVL
DESCRIPTION	X'FMR 183-412 PQ2625 310uH+/-5%

REMARKS:

1. THE PURPOSE OF APPROVAL:(此份承認書發行目的)

■NEW COMPONENT.(新零件承認)

□RUNNING CHANGE.(消耗庫存後，規格變更，前承認書作廢)

□ CHANGE IMMEDIATELY. (規格立即變更，前承認書作廢)

□ AVL REVISE.(修訂廠商一覽表，前承認書作廢)

2. DISTRIBUTION: ■PUR ■IQC

3. NEW COMPONENT FIRST USE,TIGHTEN UP ON CHECK.(新型元件，第一次使用。請加強檢驗！)

4. INCOMING REQUIREMENT: ■ROHS MATERIAL □NON-ROHS MATERIAL

NOTE :

■ Approval sheet total 15 pages

■ Test data sheet total 2 page.

□ Attached samples are for IQC reference.

Having the following safety license

■UL ( ) □CSA ( )

□TUV ( ) □CUL ( )

□VDE ( ) □SEV ( )

□CB CERT( ) □T-MARK( )

SIGNATURE		
	SUZHOU	TW
Prepared By		
ME / EE Sign		
Approved By		

EDAC ELECTRONICS,INC.

APPROVAL REVISIONS

DCN NO.	REV.	DESCRIPTION	DATE	MADE BY	CHKD BY
	A	Initial	12/13'12	邵元珍	

APPROVED VENDER LIST

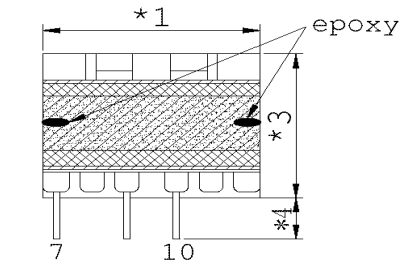
SPEC. REV.	Final App'D	MAKER	MAKER P/N	CE ENGR	APP'D DATE
	●	EDAC/鑫裕祥		邵元珍	12/13'12

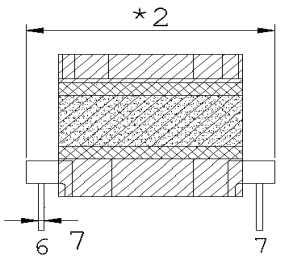
REV.:01 表單編號：FR-TS03-05

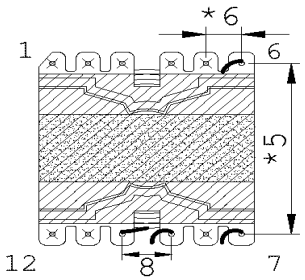
SPECIFICATION FOR APPROVAL

PART NO. :	1831117001	Drawing No. :	183-412
ISSUE DATE:	2012-12-6	SPEC. REV. :	A

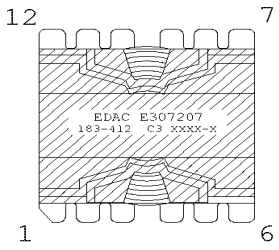
1. DIMENSION:







BOTTOM VIEW



TOP VIEW

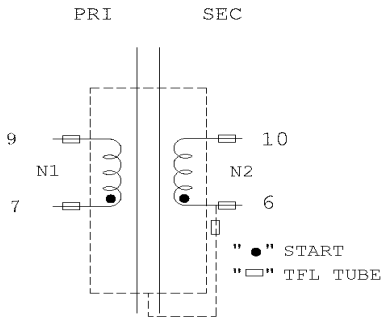
UNIT:mm	
1	28.5 MAX
2	31.0 MAX
3	26.5 MAX
4	3.2 ± 0.3
5	25.4 ± 0.5
6	3.8 ± 0.3
7	0.6 ± 0.1
8	7.5 ± 0.3

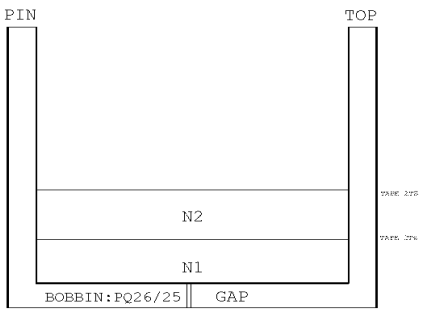
NOTE:
1. PIN1, 2, 3, 4, 5, 8, 11, 12 CUT OFF.
2. THE GAP CORE ON THE TOP SID.
3. CORE结合处需点胶,共四点,中柱點508白膠.
4. 成品沿线包方向包自粘铜箔(0.025mm*/10mmW)1T.
   再沿CORE方向包自粘铜箔(0.025mm*/10mmW)焊点在
   在PIN1-12侧,且两侧铜箔结合处用锡连接,再接0.3mm*1P
   引线穿套管于PIN6。
5. 完成后沿CORE方向包TAPE(22.0mm/W)2Ts,再沿线
   包方向包外围TAPE(14.0mm/W)2Ts.
6. “XXXX”表示年份和週期, “-X”表示生廠商代碼。
7. 品管检验时以实插PCB板为准.產品須平貼PCB.
8. 必须用吸塑盒包装:
   a. 装满后上面需加一层薄膜, 再盖上盖板, 用透明胶带
      成“十字”形封好;
   b. 包装、搬运过程中注意不要把PIN脚碰歪.

SPECIFICATION FOR APPROVAL

PART NO.:	1831117001	Drawing No.:	183-412
ISSUE DATE:	2012-12-6	SPEC. REV.:	A

2. SCHEMATIC:





NO	WIRE SIZE	START	END	TURNS	LAYER	INSULATION	NOTE
N1	0.10mm*50P (LITZ)	7	9	48.0Ts	4	TAPE 2 T	密绕
N2	0.15mm*2P	6	10	3.5Ts	1	TAPE 2 Ts	疏绕

NOTE:
1. 所有进出线须加TF TUBE.
2. N1为绞线分4层密绕,N2为疏绕,排满整个幅宽

SPECIFICATION FOR APPROVAL

PART NO. :	1831117001	Drawing No. :	183-412
ISSUE DATE:	2012-12-6	SPEC. REV. :	A

3. ELECTRICAL CHARACTERISTICS:

TEMPERATURE AT 25 ℃ HUMIDITY AT 65 +/-20% RH

TEST INSTRUMENT	CHEN HWA YD2776 LCR CHEN HWA 6882 LCR		CHEN HWA TH2511	CHEN HWA YG-108
ITEM / WINDING	3-1. INDUCTANCE: @60KHz 0.25V	3-2. Q VALUE: @	3-3. DC RESISTANCE:	3-4. VOLTAGE RATIO:
7----9	310uH±5%		150.0mΩ MAX	
6----10			140.0mΩ MAX	
3-5. LEAKAGE INDUCTANCE:		SHORT:		TEST INSTRUMENT

TEST INSTRUMENT	CHEN HWA DF2670A	CHEN HWA DF2607A	
ITEM / TERMINAL	3-6. HI-POT TEST: AC 50Hz 5mA 60SEC	3-7. INSULATION RESISTANCE: @ DC 500V	
P-----S	1500V		
P-----C	1500V		

N181840131

SPECIFICATION FOR APPROVAL

REV.A 5/6

PART NO.:	1831117001	Drawing No.:	183-412
ISSUE DATE	2012-12-6	SPEC. REV.:	A

5.MATERIAL:

NO	ITEM	SIZE	MATERIAL	RATING	MANUFACTURER	UL FILE NO
1	BOBBIN	PQ26/25	T375J	150℃	CHANG CHUN PLASTICS CO LTD	E59481
2	CORE	PQ26/25	NC-2H NH-2B		NICERA LIANFENG	
3	WIRE	0.15mm 0.10*50P(LITZ)	POLYURETHANE ENAMELLED WIRE(UEW)	130℃	KUNSHAN DELICONN ELECTRONICAL SCIENCE & TECHNOLOGY CO LTD	E250708
4	TAPE	0.025mm	1350F-1 #44	130℃	3M	E17385
5	VARNISH		BC-346A	200℃	JOHN C DOLPH CO.,	E317427
6	TUBE	TFL	TEFLON TUBE TFL	200℃	GREAT HOLDING CO.,	E156256
7	COPPER	0.025*10mm/W			KAIQI	
8	EPOXY		3300A 3300B		SUZHOU EATTO ELECTRONICS MATERIAL CO.,LTD	E253983
9	TIN		Sn99.3%-Cu0.7%		LIHENG	

4/4

EDAC ELECTRONICS,INC.

Approval Sheet NO.:
Issue Date: 2013-6-3

COMPONENT APPROVAL SHEET

PART NO	1831117002
SPEC. REV.	A
MODEL	EA11701 Series
MAKER	EDAC
MAKER P/N	REF AVL
DESCRIPTION	X'FMR 183-413 PQ3225

REMARKS:

1. THE PURPOSE OF APPROVAL:(此份承認書發行目的)

■NEW COMPONENT.(新零件承認)

□RUNNING CHANGE.(消耗庫存後，規格變更，前承認書作廢)

□ CHANGE IMMEDIATELY. (規格立即變更，前承認書作廢)

□ AVL REVISE.(修訂廠商一覽表，前承認書作廢)

2. DISTRIBUTION: ■PUR ■IQC

3. NEW COMPONENT FIRST USE,TIGHTEN UP ON CHECK.(新型元件，第一次使用。請加強檢驗！)

4. INCOMING REQUIREMENT: ■ROHS MATERIAL □NON-ROHS MATERIAL

NOTE :

■ Approval sheet total 15 pages

■ Test data sheet total 2 page.

□ Attached samples are for IQC reference.

Having the following safety license

■UL ( ) □CSA ( )

□TUV ( ) □CUL ( )

□VDE ( ) □SEV ( )

□CB CERT( ) □T-MARK( )

SIGNATURE		
	SUZHOU	TW
Prepared By		
ME / EE Sign		
Approved By		

EDAC ELECTRONICS,INC.

APPROVAL REVISIONS

DCN NO.	REV.	DESCRIPTION	DATE	MADE BY	CHKD BY
	A	Initial	6/3'13	邵元珍	

APPROVED VENDER LIST

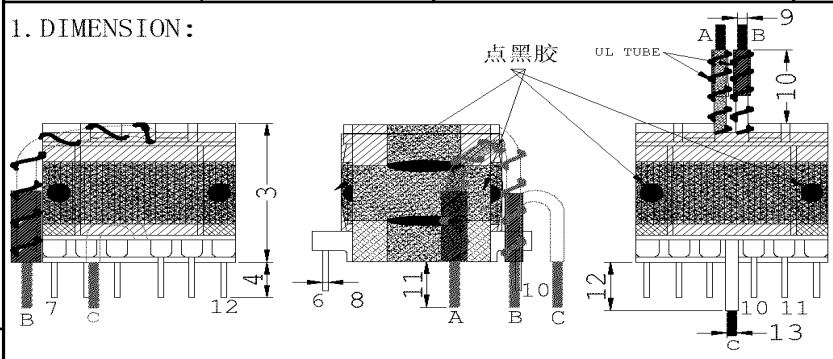
SPEC. REV.	Final App'D	MAKER	MAKER P/N	CE ENGR	APP'D DATE
	●	EDAC/鑫裕祥		邵元珍	6/3'13

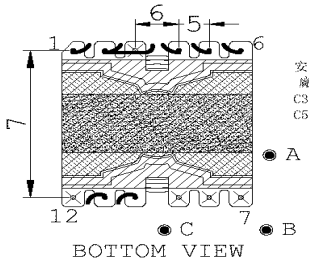
REV.:01 表單編號：FR-TS03-05

SPECIFICATION FOR APPROVAL

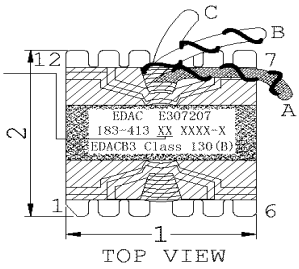
PART NO.:	1831117002	Drawing No.:	183-413
ISSUE DATE:	2013-5-29	SPEC. REV.:	A

1. DIMENSION:



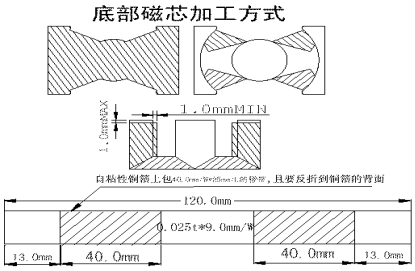


安規授權生產廠商ID代碼:
C3 : 鑫裕祥
C5 : 福斯達



UNIT:mm	
1	34.0 MAX
2	35.0 MAX
3	26.5 MAX
4	3.5 ±0.3
5	5.00 ±0.3
6	**7.50 ±0.3**
7	30.5 ±0.3
8	0.80 ±0.1
9	2.4 MAX
10	35.0 ±2.0
11	5.0 ± 1.0
12	18.0 ± 2.0
13	2.6 MAX
*14	8.5 MIN

底部磁芯加工方式



NOTE:

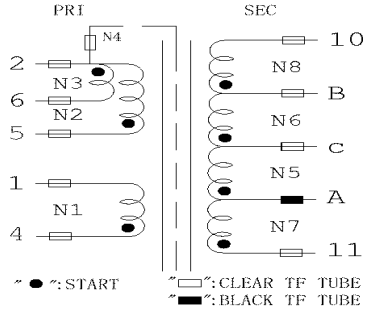
1. PIN3, 7, 8, 9, 12剪去.
2. 研磨CORE放在頂部，未磨CORE放在底部；**底部磁芯需用兩层胶带(38.0mm/W)加工(如左圖)**；磁芯固定膠帶(12mm/W)3TS，CORE結合處點四點黑膠固定，黑胶烤干后拆除固定膠帶，中柱点#508白胶.
3. 沿CORE方向包自粘铜箔(0.025mm*9mm/W) 1T→再沿线包方向包自粘外铜箔(0.025mm*9mm/W) 1T，两外铜箔成“十”字交叉型，两侧交叉处均须焊接.(注:沿线包方向的铜箔加工方式如图，包铜箔时，铜箔上包胶布处需在初、次级两侧).
4. 先沿线包方向包胶带(15.0mm/w)2Ts，再沿CORE方向包TAPE (28mm/w)2.0Ts.
5. 標籤貼于頂部，其中"XXXX"表示年和周期，-X表示生产厂商代碼.
6. 飛線須依PCB成型(如圖片)，飛線須緊貼變壓器本體，不可擋周圍零件變壓器合腳時需平貼PCB，不可浮高。
7. 品管检验时以实插PCB板为准.產品須平貼PCB.
8. 必須用吸塑盒包裝：
   a. 装满后上面需加一层薄膜，再盖上盖板，用透明胶带成“十字”形封好；
   b. 包装、搬运过程中注意不要把PIN脚碰歪.

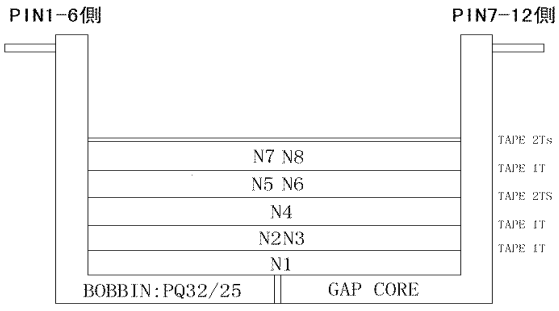
N181840133

SPECIFICATION FOR APPROVAL

PART NO.:	1831117002	Drawing No.:	183-413
ISSUE DATE:	2013-5-9	SPEC. REV.:	A

2. SCHEMATIC:

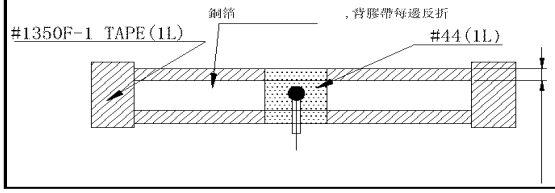




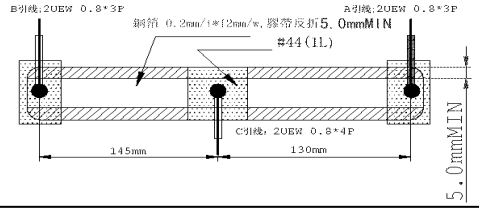
NO	WIRE SIZE	START	END	TURNS	LAYER	INSULATION	NOTE
N1	0.60mm*1P TRIPLE WIRE	4	1	31.0Ts		TAPE 1T	密绕
N2	0.2mm*2P TRIPLE WIRE	5	2	4.0Ts		TAPE 1T	同层并绕 均区疏绕
N3	0.2mm*2P TRIPLE WIRE	2	6	4.0Ts			
N4	COPPER FOIL	/	2	1.2Ts		TAPE 2Ts	背胶铜箔
N5	COPPER FOIL 0.2*12.0mm/w	A	C	2.0Ts		TAPE 1T	背胶铜箔
N6		C	B	2.0Ts			
N7	0.2mm*2P TRIPLE WIRE	11	A	3.0Ts		TAPE 2Ts	同层并绕 均区疏绕
N8	0.2mm*2P TRIPLE WIRE	B	10	3.0Ts			

NOTE:
1. 所有进出线须加TF TUBE. 其中“A”飞线和N3绕组中PIN2,6引线需要穿黑色套管
2. N4为背胶内铜箔，胶带反折 0.3mm*1P引线穿TF TUBE接PIN2且焊点朝外绕制.
3. N5N6为背胶铜箔(銅箔加工圖如下),A,B飛線均從PIN7-12側頂部出線,C从PIN7-12底頂部出線,
其中A飛線穿黑色鐵氟龍套管,B,C飛線穿透明鐵氟龍套管.（铜箔为双层背胶，且首尾处需修圆角）

N4铜箔加工方法如下：（绕线时，焊点朝外）



N5,N6铜箔加工方法如下：（绕线时，焊点朝外）



SPECIFICATION FOR APPROVAL

PART NO. :	1831117002	Drawing No. :	183-413
ISSUE DATE:	2013-5-9	SPEC. REV. :	A

3. ELECTRICAL CHARACTERISTICS:

TEMPERATURE AT 25 ℃ HUMIDITY AT 65 +/-20% RH

TEST INSTRUMENT	CHEN HWA YD2776 LCR CHEN HWA 6882 LCR		CHEN HWA TH2511	CHEN HWA YG-108
ITEM / WINDING	3-1. INDUCTANCE: @60KHz 0.25V	3-2. Q VALUE: @	3-3. DC RESISTANCE:	3-4. VOLTAGE RATIO:
4-----1	750uH±5%		130.0mΩ MAX	
11-----A			110.0mΩ MAX	
B-----10			110.0mΩ MAX	
A-----C			2.5mΩ MAX	
C-----B			2.5mΩ MAX	
5-----2			140mΩ MAX	
2-----6			140mΩ MAX	

3-5. LEAKAGE INDUCTANCE: @ 60KHz 0.25V	SHORT: SEC	LK(4-1): **18.0uH MAX**	TEST INSTRUMENT

TEST INSTRUMENT	CHEN HWA DF2670A	CHEN HWA DF2607A	
ITEM / TERMINAL	3-6. HI-POT TEST: AC 50/60Hz 5mA 60SEC	3-7. INSULATION RESISTANCE: @ DC 500V	
P-----S	4000V(ARC:7.5mA)	100M OHM MIN	
S-----C	4000V		
P-----C	1800V(组装外铜箔前)		
P-----P	600V		

N181840133

SPECIFICATION FOR APPROVAL

PART NO.:	1831117002	Drawing No.:	183-413
ISSUE DATE:	2013-5-29	SPEC. REV.:	A

5.MATERIAL:

NO	ITEM	SIZE	MATERIAL	RATING	MANUFACTURER	UL FILE NO
1	BOBBIN	PQ32/25	PM-9820	150℃	SUMITOMO BAKELITE CO.,	E41429
			T375J		CHANG CHUN PLASTICS CO.,	E59481
2	CORE	FERRITE CORE PQ32/25	PF-2L NC-2H JR2KBF1 NH-2B		CWGC CO., NICERA CO., SPINEL CO., LIANFENG CO.,	
3	WIRE	0.15mm	POLYURETHANE ENAMELLED WIRE(UEW)	130℃	KUNSHAN DELICONN ELECTRONICAL SCIENCE & TECHNOLOGY CO LTD	E250708
4	TRIPLE WIRE	0.60mm	TRIPLE INSULATED WIRE TRW(B)	130℃	GREAT LEOFLON CO.,	E211989
5	TAPE		CT-28 1350F-1 #44	130℃	JINGJIANG YAHUA CO., 3M CO.,	E165111 E17385
6	VARNISH		BC-346A	130℃	JOHN C DOLPH CO.,	E317427
7	TUBE		TFL	200℃	GREAT HOLDING CO.,	E156256
8	COPPER	0.025mm/t*9mm/W 0.2mm/t*12mm/W			KAIQI	
9	EPOXY		E500		EATTO	E218090
			508		DONGBU	E108491

N181840133

EDAC ELECTRONICS,INC.

Approval Sheet NO.:
Issue Date: 2013-6-3

COMPONENT APPROVAL SHEET

PART NO	1831117003
SPEC. REV.	A
MODEL	EA11701 Series
MAKER	EDAC
MAKER P/N	REF AVL
DESCRIPTION	X'FMR 183-413 PQ3225

REMARKS:

1. THE PURPOSE OF APPROVAL:(此份承認書發行目的)

■NEW COMPONENT.(新零件承認)

□RUNNING CHANGE.(消耗庫存後，規格變更，前承認書作廢)

□ CHANGE IMMEDIATELY. (規格立即變更，前承認書作廢)

□ AVL REVISE.(修訂廠商一覽表，前承認書作廢)

2. DISTRIBUTION: ■PUR ■IQC

3. NEW COMPONENT FIRST USE,TIGHTEN UP ON CHECK.(新型元件，第一次使用。請加強檢驗！)

4. INCOMING REQUIREMENT: ■ROHS MATERIAL □NON-ROHS MATERIAL

NOTE :

■ Approval sheet total 15 pages

■ Test data sheet total 2 page.

□ Attached samples are for IQC reference.

Having the following safety license

■UL ( ) □CSA ( )

□TUV ( ) □CUL ( )

□VDE ( ) □SEV ( )

□CB CERT( ) □T-MARK( )

SIGNATURE		
	SUZHOU	TW
Prepared By		
ME / EE Sign		
Approved By		

EDAC ELECTRONICS,INC.

APPROVAL REVISIONS

DCN NO.	REV.	DESCRIPTION	DATE	MADE BY	CHKD BY
	A	Initial	6/3'13	邵元珍	

APPROVED VENDER LIST

SPEC. REV.	Final App'D	MAKER	MAKER P/N	CE ENGR	APP'D DATE
	●	EDAC/鑫裕祥		邵元珍	6/3'13

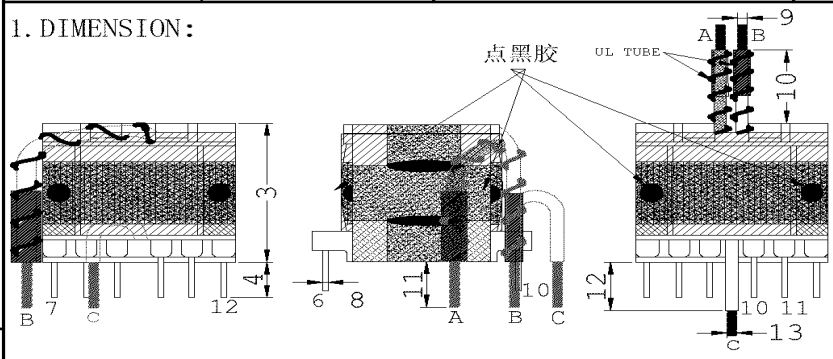
REV.:01

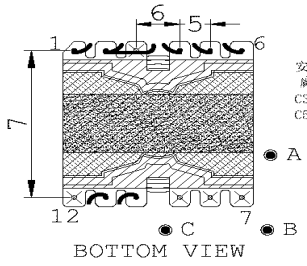
表單編號：FR-TS03-05

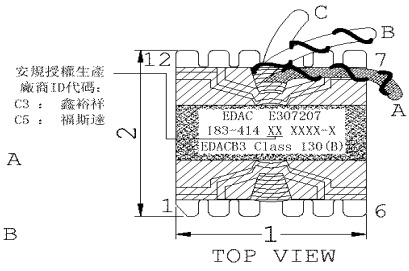
SPECIFICATION FOR APPROVAL

PART NO.:	1831117003	Drawing No.:	183-414
ISSUE DATE:	2013-5-29	SPEC. REV.:	A

1. DIMENSION:

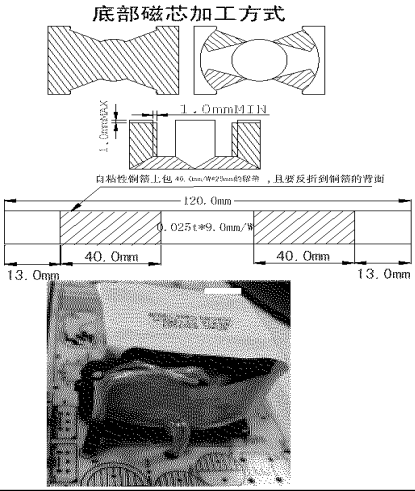






UNIT:mm		
1	34.0 MAX	A
2	35.0 MAX	
3	26.5 MAX	
4	3.5 ±0.3	
5	5.00 ±0.3	
6	**7.50 ±0.3**	
7	30.5 ±0.3	B
8	0.80 ±0.1	
9	2.4 MAX	
10	35.0 ±2.0	
11	5.0 ± 1.0	
12	18.0 ± 2.0	
13	2.6 MAX	
*14	8.5 MIN	

底部磁芯加工方式



NOTE:

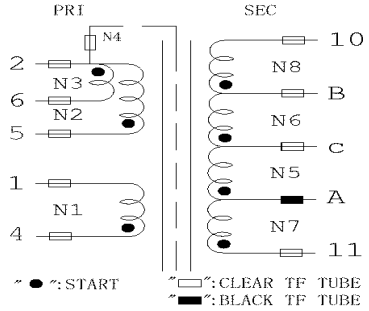
1. PIN3, 7, 8, 9, 12剪去.
2. 研磨CORE放在頂部，未磨CORE放在底部；**底部磁芯需用兩层胶带(38.0mm/W)加工(如左圖)**；磁芯固定膠帶(12mm/W)3TS，CORE結合處點四點黑膠固定，黑胶烤干后拆除固定膠帶，中柱点#508白胶.
3. 沿CORE方向包自粘铜箔(0.025mm*9mm/W) 1T→再沿线包方向包自粘外铜箔(0.025mm*9mm/W) 1T，两外铜箔成“十”字交叉型，两侧交叉处均须焊接.(注:沿线包方向的铜箔加工方式如图，包铜箔时，铜箔上包胶布处需在初、次级两侧).
4. 先沿线包方向包胶带(15.0mm/w)2Ts，再沿CORE方向包TAPE (28mm/w)2.0Ts.
5. 標籤貼于頂部，其中"XXXX"表示年和周期，-X表示生产厂商代碼.
6. 飛線須依PCB成型(如圖片)，飛線須緊貼變壓器本體，不可擋周圍零件變壓器合腳時需平貼PCB，不可浮高。
7. 品管检验时以实插PCB板为准.產品須平貼PCB.
8. 必須用吸塑盒包裝：
   a. 装满后上面需加一层薄膜，再盖上盖板，用透明胶带成“十字”形封好；
   b. 包装、搬运过程中注意不要把PIN脚碰歪.

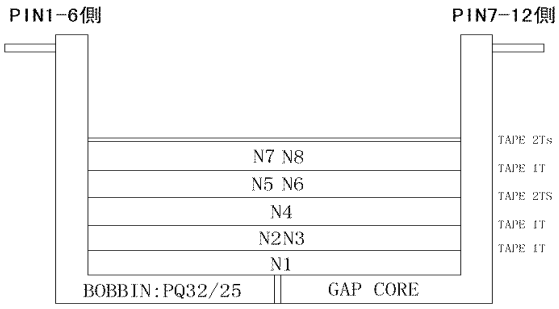
N181840135

SPECIFICATION FOR APPROVAL

PART NO.:	1831117003	Drawing No.:	183-414
ISSUE DATE:	2013-5-9	SPEC. REV.:	A

2. SCHEMATIC:

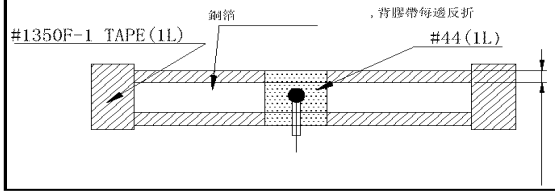




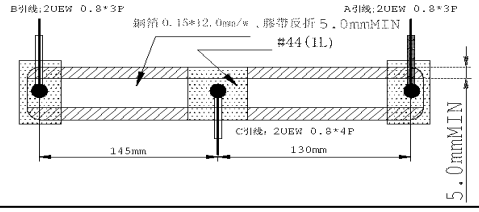
NO	WIRE SIZE	START	END	TURNS	LAYER	INSULATION	NOTE
N1	0.60mm*1P TRIPLE WIRE	**4**	1	30.0Ts		TAPE 1T	密绕
N2	0.2mm*2P TRIPLE WIRE	**5**	2	4.0Ts		TAPE 1T	同层并绕 均区疏绕
N3	0.2mm*2P TRIPLE WIRE	2	6	4.0Ts			
N4	COPPER FOIL	/	2	1.2Ts		TAPE 2Ts	背胶铜箔
N5	COPPER FOIL 0.15*12.0mm/w	A	C	3.0Ts		TAPE 1T	背胶铜箔
N6		C	B	3.0Ts			
N7	0.2mm*2P TRIPLE WIRE	11	A	3.0Ts		TAPE 2Ts	同层并绕 均区疏绕
N8	0.2mm*2P TRIPLE WIRE	B	10	3.0Ts			

NOTE:
1. 所有进出线须加TF TUBE. 其中“A”飞线和N3绕组中PIN2,6引线需要穿黑色套管
2. N4为背胶内铜箔，胶带反折 0.3mm*1P引线穿TF TUBE接PIN2且焊点朝外绕制.
3. N5N6为背胶铜箔(銅箔加工圖如下),A,B飛線均從PIN7-12側頂部出線,C从PIN7-12底頂部出線，其中A飛線穿黑色鐵氟龍套管,B,C飛線穿透明鐵氟龍套管.（铜箔为双层背胶，且首尾处需修圆角）

N4铜箔加工方法如下：（绕线时，焊点朝外）



N5,N6铜箔加工方法如下：（绕线时，焊点朝外）



SPECIFICATION FOR APPROVAL

PART NO.:	1831117003	Drawing No.:	183-414
ISSUE DATE:	2013-5-9	SPEC. REV.:	A

3. ELECTRICAL CHARACTERISTICS:

TEMPERATURE AT 25 ℃ HUMIDITY AT 65 +/-20% RH

TEST INSTRUMENT	CHEN HWA YD2776 LCR CHEN HWA 6882 LCR		CHEN HWA TH2511	CHEN HWA YG-108
ITEM / WINDING	3-1. INDUCTANCE: @60KHz 0.25V	3-2. Q VALUE: @	3-3. DC RESISTANCE:	3-4. VOLTAGE RATIO:
4-----1	630uH±5%		130.0mΩ MAX	
11-----A			110.0mΩ MAX	
B-----10			110.0mΩ MAX	
A-----C			3.5mΩ MAX	
C-----B			3.5mΩ MAX	
5-----2			140mΩ MAX	
2-----6			140mΩ MAX	

3-5. LEAKAGE INDUCTANCE: @ 60KHz 0.25V	SHORT: SEC	LK(4-1): **18.0uH MAX**	TEST INSTRUMENT

TEST INSTRUMENT	CHEN HWA DF2670A	CHEN HWA DF2607A	
ITEM / TERMINAL	3-6. HI-POT TEST: AC 50/60Hz 5mA 60SEC	3-7. INSULATION RESISTANCE: @ DC 500V	
P-----S	4000V(ARC:7.5mA)	100M OHM MIN	
S-----C	4000V		
P-----C	1800V(组装外铜箔前)		
P-----P	600V		

N181840135

SPECIFICATION FOR APPROVAL

PART NO.:	1831117003	Drawing No.:	183-414
ISSUE DATE:	2013-5-29	SPEC. REV.:	A

5.MATERIAL:

NO	ITEM	SIZE	MATERIAL	RATING	MANUFACTURER	UL FILE NO
1	BOBBIN	PQ32/25	PM-9820	150℃	SUMITOMO BAKELITE CO.,	E41429
			T375J		CHANG CHUN PLASTICS CO.,	E59481
2	CORE	FERRITE CORE PQ32/25	PF-2L NC-2H JR2KBF1 NH-2B		CWGC CO., NICERA CO., SPINEL CO., LIANFENG CO.,	
3	WIRE	0.15mm	POLYURETHANE ENAMELLED WIRE(UEW)	130℃	KUNSHAN DELICONN ELECTRONICAL SCIENCE & TECHNOLOGY CO LTD	E250708
4	TRIPLE WIRE	0.60mm	TRIPLE INSULATED WIRE TRW(B)	130℃	GREAT LEOFLON CO.,	E211989
5	TAPE		CT-28 1350F-1 #44	130℃	JINGJIANG YAHUA CO., 3M CO.,	E165111 E17385
6	VARNISH		BC-346A	130℃	JOHN C DOLPH CO.,	E317427
7	TUBE		TFL	200℃	GREAT HOLDING CO.,	E156256
8	COPPER	0.025mm/t*9mm/W 0.15mm/t*12mm/W			KAIQI	
9	EPOXY		E500		EATTO	E218090
			508		DONGBU	E108491

N181840135

EDAC ELECTRONICS,INC.

Approval Sheet NO.:
Issue Date: 2013-3-20

COMPONENT APPROVAL SHEET

PART NO	
SPEC. REV.	A
MODEL	EA11701 Series
MAKER	EDAC
MAKER P/N	REF AVL
DESCRIPTION	X'FMR 183-422 PQ3225 650uH±5%

REMARKS:

1. THE PURPOSE OF APPROVAL:(此份承認書發行目的)

■NEW COMPONENT.(新零件承認)

□RUNNING CHANGE.(消耗庫存後，規格變更，前承認書作廢)

□ CHANGE IMMEDIATELY. (規格立即變更，前承認書作廢)

□ AVL REVISE.(修訂廠商一覽表，前承認書作廢)

2. DISTRIBUTION: ■PUR ■IQC

3. NEW COMPONENT FIRST USE,TIGHTEN UP ON CHECK.(新型元件，第一次使用。請加強檢驗！)

4. INCOMING REQUIREMENT: ■ROHS MATERIAL □NON-ROHS MATERIAL

NOTE :

■ Approval sheet total 15 pages

■ Test data sheet total 2 page.

□ Attached samples are for IQC reference.

Having the following safety license

■UL ( ) □CSA ( )

□TUV ( ) □CUL ( )

□VDE ( ) □SEV ( )

□CB CERT( ) □T-MARK( )

SIGNATURE		
	SUZHOU	TW
Prepared By		
ME / EE Sign		
Approved By		

EDAC ELECTRONICS,INC.

APPROVAL REVISIONS

DCN NO.	REV.	DESCRIPTION	DATE	MADE BY	CHKD BY
	A	Initial	3/21'13	邵元珍	

APPROVED VENDER LIST

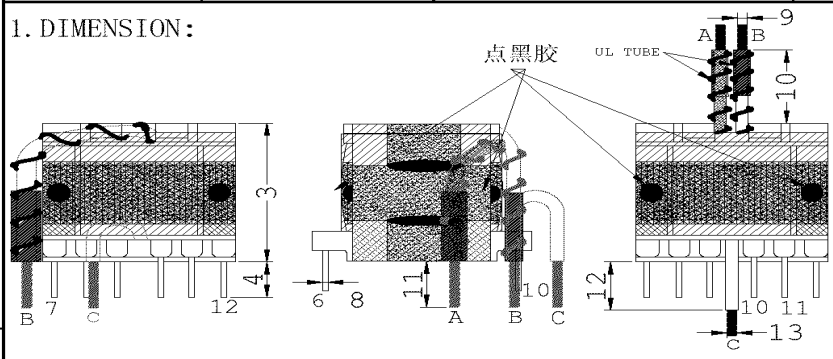
SPEC. REV.	Final App'D	MAKER	MAKER P/N	CE ENGR	APP'D DATE
	●	EDAC/鑫裕祥		邵元珍	3/21'13

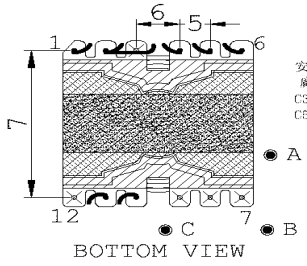
REV.:01 表單編號：FR-TS03-05

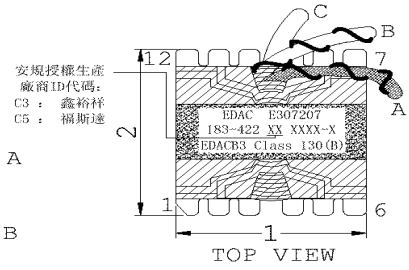
SPECIFICATION FOR APPROVAL

PART NO. :		Drawing No. :	183-422
ISSUE DATE:	2013-5-29	SPEC. REV. :	A

1. DIMENSION:

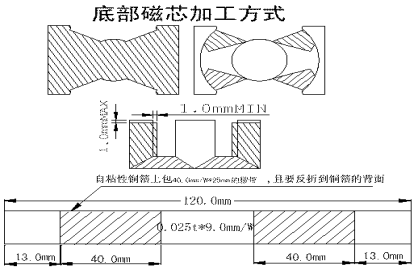


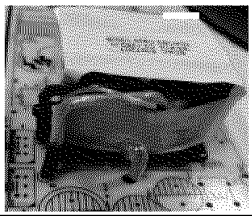




UNIT:mm	
1	34.0 MAX
2	35.0 MAX
3	26.5 MAX
4	3.5 ±0.3
5	5.00 ±0.3
6	**7.50 ±0.3**
7	30.5 ±0.3
8	0.80 ±0.1
9	2.4 MAX
10	35.0 ±2.0
11	5.0 ± 1.0
12	18.0 ± 2.0
13	2.6 MAX
*14	8.5 MIN

底部磁芯加工方式





NOTE:

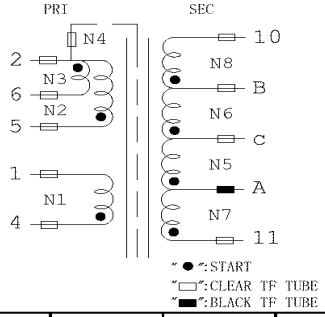
1. PIN3, 7, 8, 9, 12剪去.
2. 研磨CORE放在頂部，未磨CORE放在底部；**底部磁芯需用兩层胶带(38.0mm/W)加工(如左圖)**；磁芯固定膠帶(12mm/W)3TS，CORE結合處點四點黑膠固定,黑胶烤干后拆除固定膠帶,中柱点#508白胶.
3. 沿CORE方向包自粘铜箔(0.025mm*9mm/W) 1T→再沿线包方向包自粘外铜箔(0.025mm*9mm/W) 1T,两外铜箔成“十”字交叉型,两侧交叉处均须焊接.(注:沿线包方向的铜箔加工方式如图,包铜箔时,铜箔上包胶布处需在初、次级两侧).
4. 先沿线包方向包胶带(15.0mm/w)2Ts,再沿CORE方向包TAPE (28mm/w)2.0Ts.
5. 標籤貼于頂部，其中"XXXX"表示年和周期,-X表示生产厂商代碼.
6. 飛線須依PCB成型(如圖片),飛線須緊貼變壓器本體,不可擋周圍零件變壓器合腳時需平貼PCB，不可浮高。
7. 品管检验时以实插PCB板为准.產品須平貼PCB.
8. 必须用吸塑盒包装:
   a. 装满后上面需加一层薄膜，再盖上盖板，用透明胶带成“十字”形封好;
   b. 包装、搬运过程中注意不要把PIN脚碰歪.

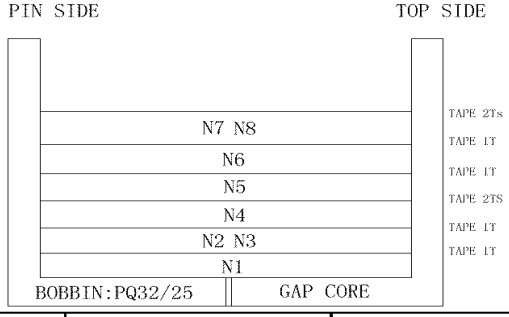
N181840136

SPECIFICATION FOR APPROVAL

PART NO.:	0	Drawing No.:	183-422
ISSUE DATE:	2013-3-20	SPEC. REV.:	A

2. SCHEMATIC:

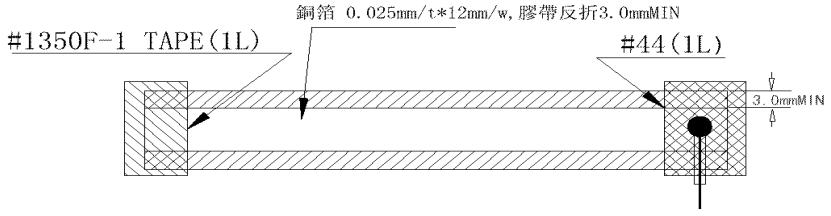




NO	WIRE SIZE	START	END	TURNS	LAYER	INSULATION	NOTE
N1	0.50mm*1P TRIPLE WIRE	4	1	35.0Ts	2	TAPE 1T	密绕
N2	0.2mm*2P TRIPLE WIRE	5	2	5.0Ts	1	TAPE 1T	同层并绕 均区疏绕
N3	0.2mm*2P TRIPLE WIRE	2	6	5.0Ts			
N4	COPPER FOIL 0.025*12.0mm/w	/	2	1.1Ts	1	TAPE 2Ts	背胶铜箔
N5	0.80mm*2P TRIPLE WIRE	A	C	6.0Ts	1	TAPE 1T	密繞
N6	0.80mm*2P TRIPLE WIRE	C	B	6.0Ts	1	TAPE 1T	密繞
N7	0.2mm*2P TRIPLE WIRE	11	A	3.0Ts	1	TAPE 2Ts	同层并绕 均区疏绕
N8	0.2mm*2P TRIPLE WIRE	B	10	3.0Ts			

NOTE:
1. 所有进出线须加TF TUBE. 其中“A”飞线需要穿黑色套管
2. N4为背胶内铜箔，胶带反折3.0mm MIN, 别接0.3mm*1P引线穿TF TUBE接PIN2且焊点朝外绕制.
3. N4为背胶铜箔，其他所有繞組均為三層絕緣線，其中A, B, C為飛線，A, B飛線均從PIN7-12側頂部出線，C从PIN7-12底頂部出線，須絞線焊錫. 飛線長度參照外觀圖。

N4铜箔加工方法如下：（绕线时，焊点朝外）



N181840136

SPECIFICATION FOR APPROVAL

PART NO.:	0	Drawing No.:	183-422
ISSUE DATE:	2013-3-20	SPEC. REV.:	A

3. ELECTRICAL CHARACTERISTICS:

TEMPERATURE AT 25 ℃ HUMIDITY AT 65 +/-20% RH

TEST INSTRUMENT	CHEN HWA YD2776 LCR CHEN HWA 6882 LCR		CHEN HWA TH2511	CHEN HWA YG-108
ITEM / WINDING	3-1. INDUCTANCE: @60KHz 0.25V	3-2. Q VALUE: @	3-3. DC RESISTANCE:	3-4. VOLTAGE RATIO:
4-----1	650uH±5%		140.0mΩ MAX	
11-----A			100.0mΩ MAX	
B-----10			100.0mΩ MAX	
A-----C			11.0mΩ MAX	
C-----B			11.0mΩ MAX	
5-----2			110mΩ MAX	
2-----6			110mΩ MAX	

3-5. LEAKAGE INDUCTANCE: @ 60KHz 0.25V	SHORT: SEC	LK(4-1): 12.0uH MAX	TEST INSTRUMENT

TEST INSTRUMENT	CHEN HWA DF2670A	CHEN HWA DF2607A	
ITEM / TERMINAL	3-6. HI-POT TEST: AC 50/60Hz 5mA 3SEC	3-7. INSULATION RESISTANCE: @ DC 500V	
P-----S	3600V(ARC:7.5mA)	100M OHM MIN	
S-----C	1800V		
P-----C	3600V(组装外铜箔前)		
P-----P	600V		

N181840136

SPECIFICATION FOR APPROVAL

PART NO.:	0	Drawing No.:	183-422
ISSUE DATE:	2013-3-20	SPEC. REV.:	A

5.MATERIAL:

NO	ITEM	SIZE	MATERIAL	RATING	MANUFACTURER	UL FILE NO
1	BOBBIN	PQ32/25	PM-9820	150℃	SUMITOMO BAKELITE CO.,	E41429
			T375J		CHANG CHUN PLASTICS CO.,	E59481
2	CORE	FERRITE CORE PQ32/25	PF-2L NC-2H JR2KBF1 NH-2B		CWGC CO., NICERA CO., SPINEL CO., LIANFENG CO.,	
3	WIRE	0.30mm	POLYURETHANE ENAMELLED WIRE(UEW)	130℃	KUNSHAN DELICONN ELECTRONICAL SCIENCE & TECHNOLOGY CO LTD	E250708
4	TRIPLE WIRE	0.50mm 0.80mm 0.20mm	TRIPLE INSULATED WIRE TRW(B)	130℃	GREAT LEOFLON CO.,	E211989
5	TAPE		CT-28 1350F-1 #44	130℃	JINGJIANG YAHUA CO., 3M CO.,	E165111 E17385
6	VARNISH		BC-346A	130℃	JOHN C DOLPH CO.,	E317427
7	TUBE		TFL	200℃	GREAT HOLDING CO.,	E156256
8	COPPER	0.025mm/t*12mm/W			KAIQI	
9	EPOXY		E500 508		EATTO	E218090

N181840136

EDAC ELECTRONICS,INC.

Approval Sheet NO.:
Issue Date: 2013-3-20

COMPONENT APPROVAL SHEET

PART NO	
SPEC. REV.	A
MODEL	EA11701 Series
MAKER	EDAC
MAKER P/N	REF AVL
DESCRIPTION	X'FMR 183-423 PQ3225 650uH±5%

REMARKS:

1. THE PURPOSE OF APPROVAL:(此份承認書發行目的)

■NEW COMPONENT.(新零件承認)

□RUNNING CHANGE.(消耗庫存後，規格變更，前承認書作廢)

□ CHANGE IMMEDIATELY. (規格立即變更，前承認書作廢)

□ AVL REVISE.(修訂廠商一覽表，前承認書作廢)

2. DISTRIBUTION: ■PUR ■IQC

3. NEW COMPONENT FIRST USE,TIGHTEN UP ON CHECK.(新型元件，第一次使用。請加強檢驗！)

4. INCOMING REQUIREMENT: ■ROHS MATERIAL □NON-ROHS MATERIAL

NOTE :

■ Approval sheet total 15 pages

■ Test data sheet total 2 page.

□ Attached samples are for IQC reference.

Having the following safety license

■UL ( ) □CSA ( )

□TUV ( ) □CUL ( )

□VDE ( ) □SEV ( )

□CB CERT( ) □T-MARK( )

SIGNATURE		
	SUZHOU	TW
Prepared By		
ME / EE Sign		
Approved By		

EDAC ELECTRONICS,INC.

APPROVAL REVISIONS

DCN NO.	REV.	DESCRIPTION	DATE	MADE BY	CHKD BY
	A	Initial	12/13'12	邵元珍	

APPROVED VENDER LIST

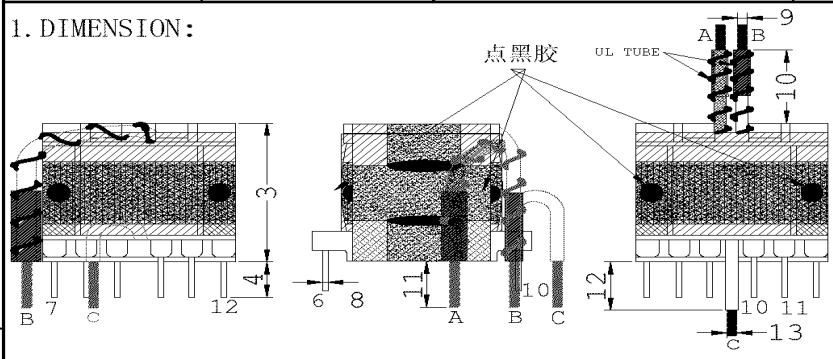
SPEC. REV.	Final App'D	MAKER	MAKER P/N	CE ENGR	APP'D DATE
	●	EDAC/鑫裕祥		邵元珍	12/13'12

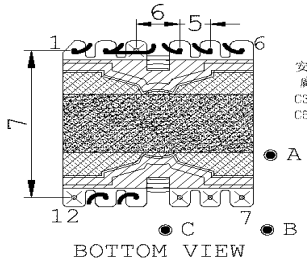
REV.:01 表單編號：FR-TS03-05

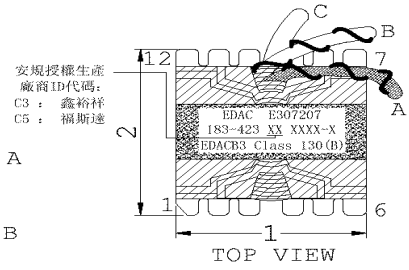
SPECIFICATION FOR APPROVAL

PART NO. :		Drawing No. :	183-423
ISSUE DATE:	2013-5-29	SPEC. REV. :	A

1. DIMENSION:

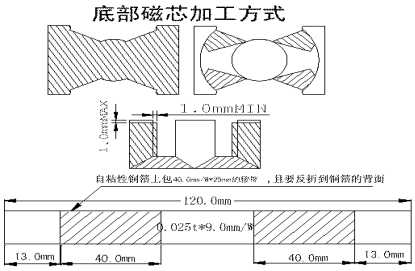


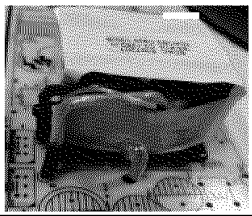




UNIT:mm		
1	34.0 MAX	
2	35.0 MAX	
3	26.5 MAX	
4	3.5 ±0.3	
5	5.00 ±0.3	
6	**7.50 ±0.3**	
7	30.5 ±0.3	
8	0.80 ±0.1	
9	2.4 MAX	
10	35.0 ±2.0	
11	5.0 ± 1.0	
12	18.0 ± 2.0	
13	2.6 MAX	
*14	8.5 MIN	

底部磁芯加工方式





NOTE:

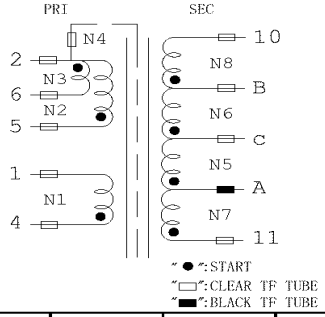
1. PIN3, 7, 8, 9, 12剪去.
2. 研磨CORE放在頂部，未磨CORE放在底部；**底部磁芯需用兩层胶带(38.0mm/W)加工(如左圖)**；磁芯固定膠帶(12mm/W)3TS，CORE結合處點四點黑膠固定,黑胶烤干后拆除固定膠帶,中柱点#508白胶.
3. 沿CORE方向包自粘铜箔(0.025mm*9mm/W) 1T→再沿线包方向包自粘外铜箔(0.025mm*9mm/W) 1T,两外铜箔成“十”字交叉型,两侧交叉处均须焊接.(注:沿线包方向的铜箔加工方式如图,包铜箔时,铜箔上包胶布处需在初、次级两侧).
4. 先沿线包方向包胶带(15.0mm/w)2Ts,再沿CORE方向包TAPE (28mm/w)2.0Ts.
5. 標籤貼于頂部，其中"XXXX"表示年和周期,-X表示生产厂商代碼.
6. 飛線須依PCB成型(如圖片),飛線須緊貼變壓器本體,不可擋周圍零件.
7. 品管检验时以实插PCB板为准.產品須平貼PCB.
8. 必须用吸塑盒包装:
   a. 装满后上面需加一层薄膜，再盖上盖板，用透明胶带成“十字”形封好;
   b. 包装、搬运过程中注意不要把PIN脚碰歪.

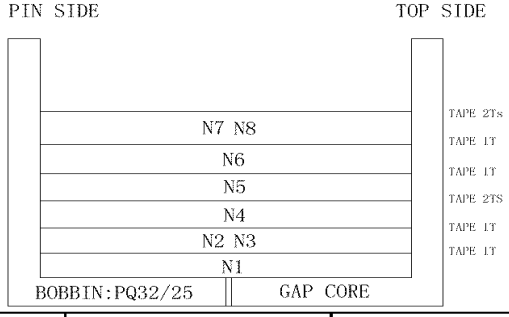
N181840137

SPECIFICATION FOR APPROVAL

PART NO.:	0	Drawing No.:	183-423
ISSUE DATE:	2013-3-20	SPEC. REV.:	A

2. SCHEMATIC:

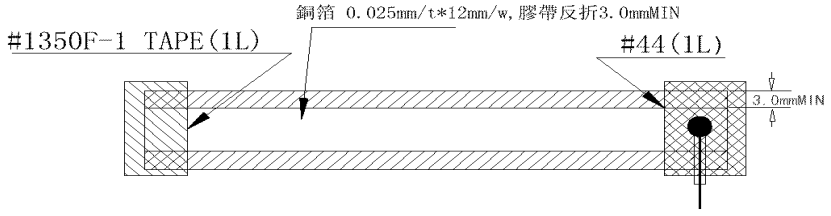




NO	WIRE SIZE	START	END	TURNS	LAYER	INSULATION	NOTE
N1	0.60mm*1P TRIPLE WIRE	4	1	32.0Ts	2	TAPE 1T	密绕
N2	0.2mm*2P TRIPLE WIRE	5	2	4.0Ts	1	TAPE 1T	同层并绕 均区疏绕
N3	0.2mm*2P TRIPLE WIRE	2	6	4.0Ts			
N4	COPPER FOIL 0.025*12.0mm/w	/	2	1.1Ts	1	TAPE 2Ts	背胶铜箔
N5	0.55mm*2P TRIPLE WIRE	A	C	8.0Ts	1	TAPE 1T	密繞
N6	0.55mm*2P TRIPLE WIRE	C	B	8.0Ts	1	TAPE 1T	密繞
N7	0.2mm*2P TRIPLE WIRE	11	A	3.0Ts	1	TAPE 2Ts	同层并绕 均区疏绕
N8	0.2mm*2P TRIPLE WIRE	B	10	3.0Ts			

NOTE:
1. 所有进出线须加TF TUBE. 其中“A”飞线需要穿黑色套管
2. N4为背胶内铜箔，胶带反折3.0mm MIN, 别接0.3mm*1P引线穿TF TUBE接PIN2且焊点朝外绕制.
3. N4为背胶铜箔，其他所有繞組均為三層絕緣線，其中A, B, C為飛線，A, B飛線均從PIN7-12側頂部出線，C从PIN7-12底頂部出線，須絞線焊錫. 飛線長度參照外觀圖。

N4铜箔加工方法如下：（绕线时，焊点朝外）



N181840137

SPECIFICATION FOR APPROVAL

PART NO.:	0	Drawing No.:	183-423
ISSUE DATE:	2013-3-20	SPEC. REV.:	A

3. ELECTRICAL CHARACTERISTICS:

TEMPERATURE AT 25 ℃ HUMIDITY AT 65 +/-20% RH

TEST INSTRUMENT	CHEN HWA YD2776 LCR CHEN HWA 6882 LCR		CHEN HWA TH2511	CHEN HWA YG-108
ITEM / WINDING	3-1. INDUCTANCE: @60KHz 0.25V	3-2. Q VALUE: @	3-3. DC RESISTANCE:	3-4. VOLTAGE RATIO:
4-----1	750uH±5%		50.0mΩ MAX	
11-----A			100.0mΩ MAX	
B-----10			100.0mΩ MAX	
A-----C			30.0mΩ MAX	
C-----B			30.0mΩ MAX	
5-----2			100mΩ MAX	
2-----6			100mΩ MAX	

3-5. LEAKAGE INDUCTANCE: @ 60KHz 0.25V	SHORT: SEC	LK(4-1): 12.0uH MAX	TEST INSTRUMENT

TEST INSTRUMENT	CHEN HWA DF2670A	CHEN HWA DF2607A	
ITEM / TERMINAL	3-6. HI-POT TEST: AC 50/60Hz 5mA 3SEC	3-7. INSULATION RESISTANCE: @ DC 500V	
P-----S	3600V(ARC:7.5mA)	100M OHM MIN	
S-----C	1800V		
P-----C	3600V(组装外铜箔前)		
P-----P	600V		

SPECIFICATION FOR APPROVAL

PART NO.:	0	Drawing No.:	183-423
ISSUE DATE:	2013-3-20	SPEC. REV.:	A

5.MATERIAL:

NO	ITEM	SIZE	MATERIAL	RATING	MANUFACTURER	UL FILE NO
1	BOBBIN	PQ32/25	PM-9820	150℃	SUMITOMO BAKELITE CO.,	E41429
			T375J		CHANG CHUN PLASTICS CO.,	E59481
2	CORE	FERRITE CORE PQ32/25	PF-2L NC-2H JR2KBF1 NH-2B		CWGC CO., NICERA CO., SPINEL CO., LIANFENG CO.,	
3	WIRE	0.30mm	POLYURETHANE ENAMELLED WIRE(UEW)	130℃	KUNSHAN DELICONN ELECTRONICAL SCIENCE & TECHNOLOGY CO LTD	E250708
4	TRIPLE WIRE	0.60mm 0.55mm 0.20mm	TRIPLE INSULATED WIRE TRW(B)	130℃	GREAT LEOFLON CO.,	E211989
5	TAPE		CT-28 1350F-1 #44	130℃	JINGJIANG YAHUA CO., 3M CO.,	E165111 E17385
6	VARNISH		BC-346A	130℃	JOHN C DOLPH CO.,	E317427
7	TUBE		TFL	200℃	GREAT HOLDING CO.,	E156256
8	COPPER	0.025mm/t*12mm/W			KAIQI	
9	EPOXY		E500 508		EATTO	E218090

N181840137

EDAC ELECTRONICS,INC.

Approval Sheet NO.:RD-AP0811103178
Issue Date:7/15'09

COMPONENT APPROVAL SHEET

PART NO	1811110002
SPEC. REV.	B
MODEL	EA11001(E01)
MAKER	双菱
MAKER P/N	REF AVL
DESCRIPTION	CHOKE 181-198 S065-072A 0.75*1P*60Ts 240uH

翌勝 98.7.29 承認章

REMARKS:

1. THE PURPOSE OF APPROVAL:(此份承認書發行目的)

☐ NEW COMPONENT.(新零件承認)

■ RUNNING CHANGE.(消耗庫存後，規格變更，前承認書作廢)

■ CHANGE IMMEDIATELY. (規格立即變更，前承認書作廢)

■ AVL REVISE.(修訂廠商一覽表，前承認書作廢)

2. DISTRIBUTION: ■PUR ■IQC

3. NEW COMPONENT FIRST USE,TIGHTEN UP ON CHECK.(新型元件，第一次使用。請加強檢驗！)

4. INCOMING REQUIREMENT: ■ROHS MATERIAL ☐NON-ROHS MATERIAL

NOTE :

■ Approval sheet total 42 pages

■ Test data sheet total 2 page.

☐ Attached samples are for IQC reference.

Having the following safety license

■UL ( ) ☐CSA ( )

☐TUV ( ) ☐CUL ( )

☐VDE ( ) ☐SEV ( )

☐CB CERT( ) ☐T-MARK( )

SIGNATURE	SUZHOU	TW
Prepared By	汤国7/15'09	
ME/EE Sign		
Checked By		
Approved By	經理 7-16 朱亚荣	翌勝 98.7.29 林育民

REV.: 04

表单编号：FR-TS03-04

SPECIFICATION FOR APPROVAL
BILL OF MATERIAL

NO.	ITEM	MATERIAL	SUPPLIER OF MATERIAL	CERT NO.
1	CORE	SENDUST CORE S065-072A	SUNYCORE ELECTRONICS CO., LTD DONG BU ELECTRIC CO.,LTD	
2	WIRE	POLYURETHANE COPPER WIRE THFN-216 130℃	HENG YA ELECTRIC CO.,LTD	E245514
3	EPOXY	3300A/B	LIDUO(EATTO)	E253983
4	TAPE	JY-133	JING YANG CO.,LTD	E309872
5	VARNISH	V821 MW75-C	SHANGHAI SONGBAI CO.,LTD	E213437

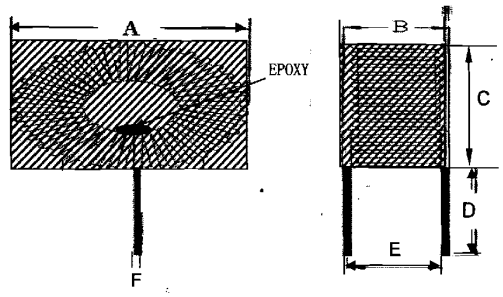
DOC NO:181-198

雙菱電子 SUNYCORE ELECTRONICS CO., LTD

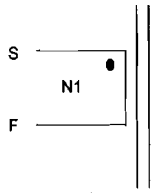
INSPECTOR: 罗枋 CHECKED BY:刘军 APPROVED BY:吴世伟

SPECIFICATION FOR APPROVAL

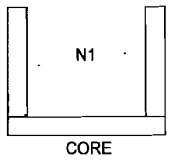
1.PHYSICAL DIMENSION (外观尺寸图)



2.SCHEMATIC:(线路图)



3.WINDING(剖面图)



4.WINDING TABLE AND NOTE(绕线结构)

Winding NO (组别)	Margin Tape (醋酸布)	PIN (脚位)	Wire&Wire Copper (绕线X股数)	TURNS (圈数)	Winding Type (绕线方式)	Tape Layer (胶带层次)	TUBE (套管)
N1	N/A	S-F	0.75*1P 2UEW	60TS +/-1TS	密绕	1TS	N/A

NOTE:

1.产品以电感为主以圈数为辅.
2.產品出入線需點膠固定,需含浸,外加TAPE17mm 1TS
3. 产品包装规范:一层80PCS, 一箱640PCS, 产品整脚以试插PCB为准.
4.外围胶带必须平齐产品底部。

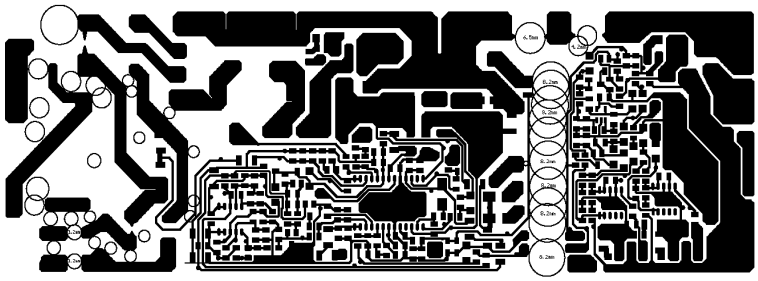
5.ELECTRONICAL CHARACTERISTIC(电器特性)
TEMP:AT25℃HUMIDITY AT:65±20% RH

MEAS. ITEM	DIMENSION UNIT:mm					
SPEC NO.	A	B	C	D	E	F
	20.5MAX	10.3MAX	20MAX	3.3±0.5	9±0.5	0.75±0.05
TEST TOOL:	CALLIPERS					
	DOC NO:181-198 REV:001					

TEST ITEM(测试项目)	TEST CONDITION(测试条件)	RESULT (条件范围值)
INDUCTANCE (电感)	1KHZ 0.25V(S-F)	240uH MIN
	GKT1062A 50欧	
HI-POT TEST (耐压)	5mA 60S COIL-CORE	500V
DC R (电阻)	(S--F)	100mΩ MAX

SUNYCORE ELECTRONICS CO., LTD TEL:0512-63322515 FAX:0512-63322512

DRAWER:罗枋 CHECKED: APPROVED:吴世伟



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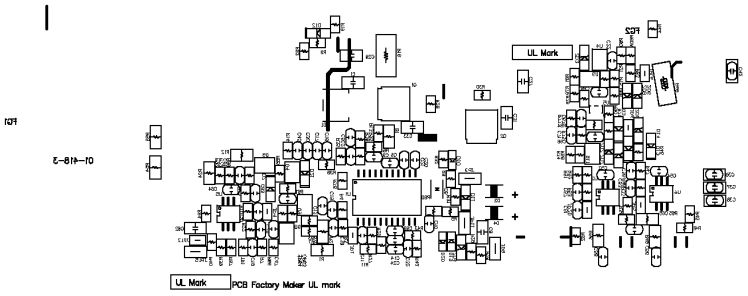

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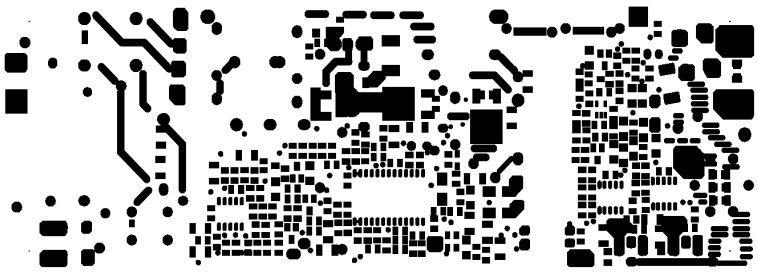

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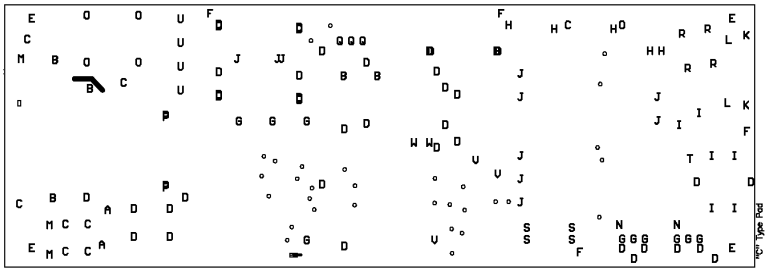
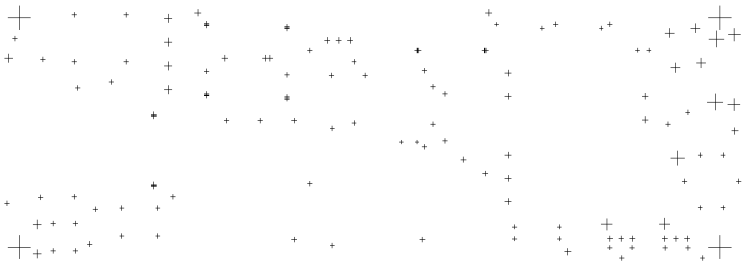


Hole Type	Qty	Diameter	Plated Diameter	Plating
A	2	43.307mil	1.1mm	PTH
B	6	40mil	1.016mm	NPTH
C	9	38.37mil	1mm	NPTH
D	44	38.37mil	1mm	PTH
E	4	196.85mil	5mm	PTH
F	4	55.118mil	1.4mm	PTH
G	10	43.307mil	1.1mm	NPTH
H	5	31.496mil	0.8mm	NPTH
I	6	37mil	0.9398mm	NPTH
J	10	51.181mil	1.3mm	PTH
K	2	102.362mil	2.6mm	NPTH
L	2	133.858mil	3.4mm	NPTH
M	3	70.866mil	1.8mm	PTH
N	2	94.488mil	2.4mm	NPTH
O	5	40mil	1.016mm	PTH
P	6	44mil	1.1176mm	PTH
Q	3	47.244mil	1.2mm	NPTH
R	4	78.74mil	2mm	PTH
S	4	35.433mil	0.9mm	NPTH
T	1	118.11mil	3mm	PTH
U	4	66.929mil	1.7mm	NPTH
V	3	44mil	1.1176mm	NPTH
W	2	32mil	0.8128mm	PTH
	141	Total		

EDACPOWER ELECTRONIC (SUZHOU) CO.,LTD						
MATERIAL	CEM-1(1.6T) 2OZ	TITLE	P.C.B.	DRAWNED	DEGINDED	CHECKED
TOLERANCE	+0 −0.3	DATE	2013.04.26	Zhihong		
UNIT	mm	DRAWN NO.	01-418-3			
SCALE	1:1	MODEL	EA1170XY EM1170XY			

N181840139



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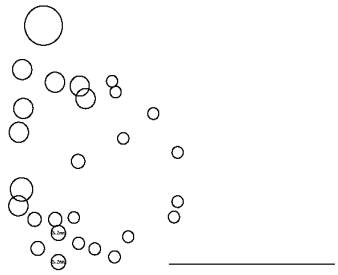

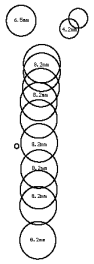

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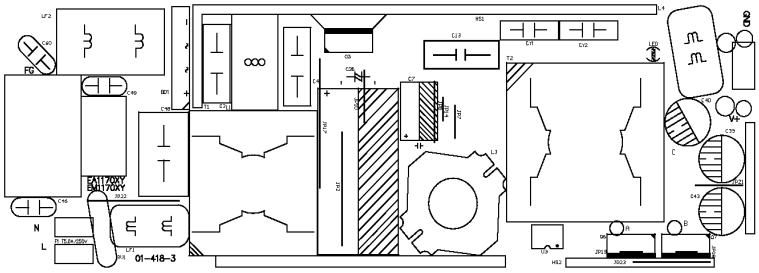

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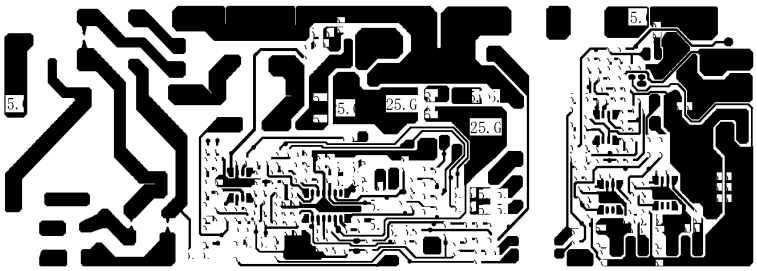

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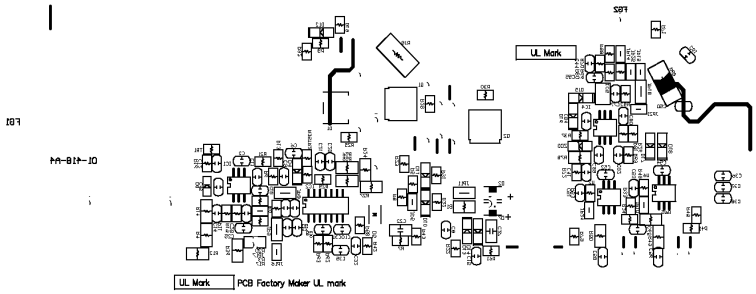

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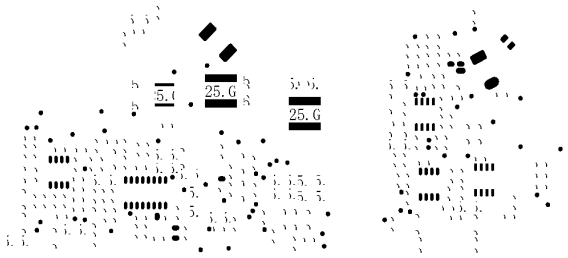

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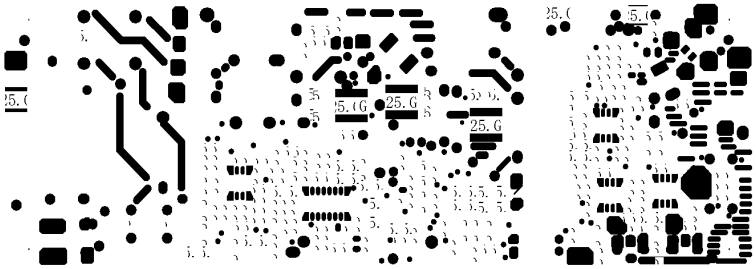

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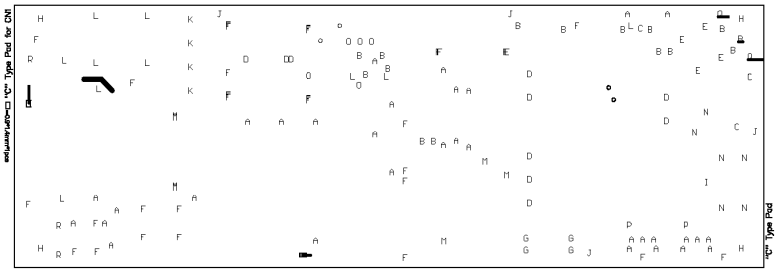
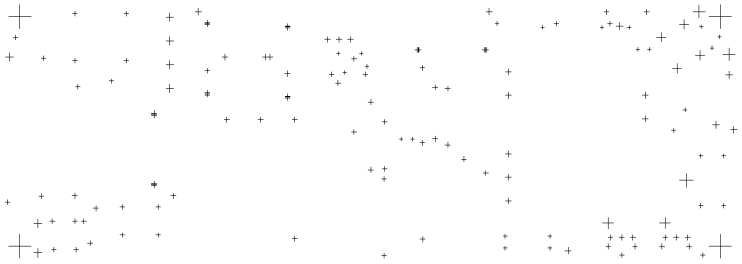


B	15	31.496mil	0.8mm	PTH
G	4	35.433mil	0.9mm	PTH
N	6	37mil	0.9398mm	PTH
F	35	39.37mil	1mm	PTH
L	11	40mil	1.016mm	PTH
A	32	43.307mil	1.1mm	PTH
M	9	44mil	1.1176mm	PTH
O	5	47.244mil	1.2mm	PTH
D	10	51.181mil	1.3mm	PTH
J	4	55.118mil	1.4mm	PTH
C	3	59.055mil	1.5mm	PTH
K	4	66.929mil	1.7mm	PTH
R	3	70.866mil	1.8mm	PTH
E	4	78.74mil	2mm	PTH
P	2	94.488mil	2.4mm	PTH
Q	2	102.362mil	2.6mm	PTH
I	1	118.11mil	3mm	PTH
H	4	196.85mil	5mm	PTH
	154	Total		

EDACPOWER ELECTRONIC (SUZHOU) CO.,LTD						
MATERIAL	CEM-1(1.6T) 2OZ	TITLE	P.C.B.	DRAWNED	DESNDED	CHECKED
TOLERANCE	+0 −0.3	DATE	2017.08.25	zhihong		
UNIT	mm	DRAWN NO.	01-418-A4			
SCALE	1:1	MODEL	EA1170XY EM1170XY			

N181840140



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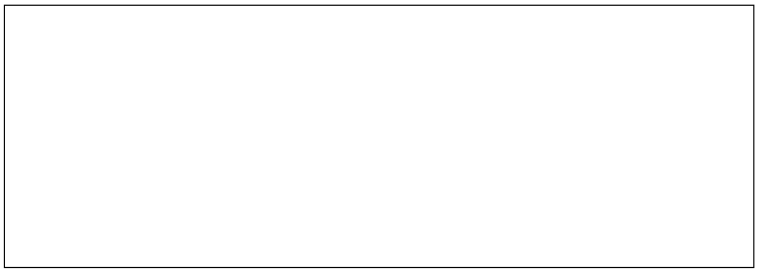

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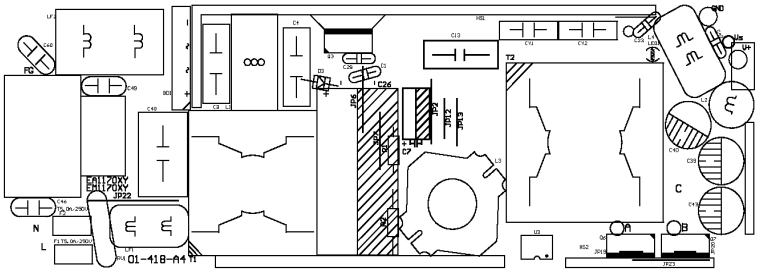

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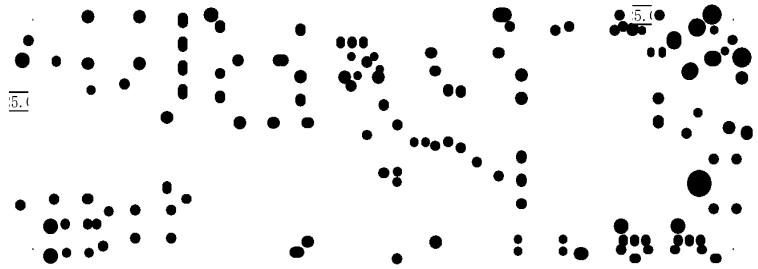

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Model	Output voltage (Vdc)	Output current (A Max.)	Output power (W Max.)	Choke Model (L1)	Transformer (T2)
EA1170XAWWWWW, EM1170XAWWWWW	12-16	Max. 10.83	Max.130	181-198	183-413
EA1170XBWWWWW, EM1170XBWWWWW	19-24	Max.6.84	Max.130	181-198	183-414
EA1170XCWWWWW, EM1170XCWWWWW	12-16	Max.11.66	Max.140	181-036 / 181-198	183-413
EA1170XDWWWWW, EM1170XDWWWWW	19-24	Max.7.36	Max.140	181-036 / 181-198	183-414
EA1170XEWWWWW, EM1170XEWWWWW	12-16	Max.12.5	Max.150	181-036 / 181-198	183-413
EA1170XFWWWWW, EM1170XFWWWWW	19-24	Max.7.89	Max.150	181-036 / 181-198	183-414
EA1170XGWWWWW, EM1170XGWWWWW	32-42	Max.4.68	Max.150	181-036 / 181-198	183-422
EA1170XHWWWWW, EM1170XHWWWWW	44-56	Max.3.12	Max.150	181-036 / 181-198	183-423
EA1170XJWWWWW, EM1170XJWWWWW	32-42	Max. 4.06	Max. 130	181-036 / 181-198	183-422
EA1170XKWWWWW, EM1170XKWWWWW	44-56	Max. 2.95	Max. 130	181-036 / 181-198	183-423
EA1170XMWWWWW, EM1170XMWWWWW	12-16	Max.13.33	Max.160	181-036 / 181-198	183-413
EA1170XNWWWWW, EM1170XNWWWWW	19-24	Max.8.42	Max.160	181-036 / 181-198	183-414
EA1170XPWWWWW, EM1170XPWWWWW	19-24	Max.8.94	Max.170	181-036 / 181-198	183-414

EA1170XQWWWWW, EM1170XQWWWWW	19-24	Max.9.47	Max.180	181-036 / 181-198	183-414
EA1170XRWWWWW, EM1170XRWWWWW	32-42	Max.5.62	Max.180	181-036 / 181-198	183-422
EA1170XSWWWWW, EM1170XSWWWWW	44-56	Max.3.75	Max.180	181-036 / 181-198	183-423

TEST RECORD NO. 1

SAMPLES:

The manufacturer submitted representative production samples of AC Adaptors, Models (1) EA1170XY, EA1170XYWWWWW (2) EM1170XY, EM1170XYWWWWW ('X' can be 1 or 3 to denote different inlet type, 1 to denote C14 type, 3 to denote C6 type; 'Y' can be A, B, C, D, E, F, G, H, J, K, M, N, P, Q, R or S to denote different output voltage range, 'W' can be 0-9, A-Z, a-z, '-' or blank to denote different client for marketing purpose).

GENERAL:

Test results relate only to the items tested.

Unless otherwise noted, all clauses and tests were not considered necessary based upon previous evaluation under the CB scheme. The CB Scheme Test Certificate Ref. No. DK-77816-UL, dated 2018-11-01, and Report Ref. No. BTL-CB-1-S1806T058, Dated 2018-10-30 was prepared by UL International Demko A/S.

The Construction Review Datasheets were not considered necessary, since the construction review had completed during the CB certification. Also, sample was reviewed at the client side during the investigation of witness trip.

Tests were considered covered as follows:

Test	File Reference	Report Date	Test Record No.

The following tests were conducted.

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The following tests were waived

- Steady Force Test (4.4.4.2, T5)
- Drop Test (4.4.4.3, T.7)
- Impact Test (4.4.4.4, T.6)
- Stress Relief Test (4.4.4.7, T.8)
- Steady-State Voltage and Current (5.2.2.2)
- Temperature Tests (5.4.1.4, 6.3.2, 9)
- Determination of Working Voltage (5.4.1.8)
- Clearance and Creepage Distance Measurement (5.4.2, 5.4.3)
- Humidity Conditioning (5.4.8)
- Electric Strength (5.4.9.1)
- Stored Discharge on Capacitors (5.5.2.2)
- Resistance of protective conductors and terminations (5.6.6.2)
- Earthed Accessible Conductive Parts (5.7.4)
- Protective Conductor Current (5.7.5)
- Power source (PS) measurement (6.2.2.2, 6.2.2.3)
- Input Current (B.2.5)
- Abnormal Operating and Fault Conditions (B.3, B.4)
- Test for the permanence of markings (F.3.10)
- Transformer Overloaded Test (G.5.3.3)
- Limited Power Source (Q.1)

The test methods and results of the above tests have been reviewed and found in accordance with the requirements in CSA C22.2 NO. 62368-1-14, Edition 2, Issue Date 2014/12/01, UL 62368-1, Edition 2, Issue Date 2014/12/01.

Test Record Summary:

The results of this investigation indicate that the products evaluated comply with the applicable requirements and, therefore, such products are judged eligible to bear UL's Mark as described on the Conclusion Page of this Report.

Report by:

Stephen Ho
Project Engineer
Conformity Assessment Services

Reviewed by:

Vincent Lai
Project Engineer
Conformity Assessment Services

CONCLUSION

A sample of the product covered by this Report has been found to comply with the requirements covering the category and the product is found to comply with UL's applicable requirements. The description and test result in this Report are only applicable to the sample(s) investigated by UL and does not signify UL certification or that the product(s) described are covered under UL's Follow-Up Service Program. When covered under UL's Follow-Up Service Program, the manufacturer is authorized to use the Certification Mark of UL on such products which comply with UL's Follow-Up Service Procedure and any other applicable requirements of UL LLC. The Certification Mark of UL on the product, or the UL symbol on the product and the Certification Mark of UL on the smallest unit container in which the product is packaged, is the only method to identify products investigated by UL to published requirements and manufactured under UL's Listing and Follow-Up Service.

Report by:

Stephen Ho
Project Engineer
Conformity Assessment Services

Reviewed by:

Vincent Lai
Project Engineer
Conformity Assessment Services