



Ref. Certif. No.

JPTUV-085699-M1

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST
CERTIFICATES FOR ELECTRICAL EQUIPMENT
(IECEE) CB SCHEMESYSTEME CEI D'ACCEPTATION MUTUELLE DE
CERTIFICATS D'ESSAIS DES EQUIPEMENTS
ELECTRIQUES (IECEE) METHODE OC

CB TEST CERTIFICATE

CERTIFICAT D'ESSAI OC

Product
Produit

LCD monitor (LED Backlight)

Name and address of the applicant
Nom et adresse du demandeurTPV Electronics (Fujian) Co., Ltd.
Rongqiao Economic and
Technological Development Zone, Fuqing City, Fujian Province, P. R.
ChinaName and address of the manufacturer
Nom et adresse du fabricantTPV Electronics (Fujian) Co., Ltd.
Rongqiao Economic and
Technological Development Zone, Fuqing City, Fujian Province, P. R.
ChinaName and address of the factory
Nom et adresse de l'usine

See additional page(s)

Ratings and principal characteristics
Valeurs nominales et caractéristiques principales

AC 100-240V; 50/60Hz; 1.5A; Class I

Trademark (if any)
Marque de fabrique (si elle existe)

AOC

Type of Manufacturer's Testing Laboratories used
Type de programme du laboratoire d'essais constructeur

N/A

Model / Type Ref.
Ref. de type22P1D, 22E1, **22*****
(* = 0-9, A-Z, a-z, -, \, /, + or blank)Additional information (if necessary may also be
reported on page 2)
Les informations complémentaires (si nécessaire,
peuvent être indiqués sur la 2^{ème} page)For model differences, refer to the test report.
Re-issue of JPTUV-085699 dated 24.01.2018,
due to first modification.A sample of the product was tested and found
to be in conformity with
Un échantillon de ce produit a été essayé et a été
considéré conforme à laIEC 60950-1:2005 + A1 + A2
See Test Report for National DifferencesAs shown in the Test Report Ref. No. which forms part
of this Certificate
Comme indiqué dans le Rapport d'essais numéro de
référence qui constitue partie de ce Certificat

50117328 002

This CB Test Certificate is issued by the National Certification Body
Ce Certificat d'essai OC est établi par l'Organisme National de CertificationTÜV Rheinland Japan Ltd.
Global Technology Assessment Center
4-25-2 Kita-Yamata, Tsuzuki-ku
Yokohama 224-0021 Japan
Phone + 81 45 914-3888
Fax + 81 45 914-3354
Mail: info@jpn.tuv.com
Web: www.tuv.com

Date: 07.03.2018

Signature:

Aegean Li

1. TPV Display Technology (Wuhan)
Co., Ltd.
Unique No. 11, Zhuankou Development
District of Economic Technological
Development Zone, Wuhan City 430056, P. R. China
2. TPV Electronics (Fujian) Co., Ltd.
Shangzheng, Yuan Hong Road
Fuqing City, Fujian Province
P. R. China
3. Envision Industry of Electronic
Products Ltd.
Rodovia Anhanguera S/N-KM 49
Tijucu Preto-Jundiaí-SP-
13.205-700, Brazil
4. L&T Display Technology (Fujian) Ltd.
Optoelectronic Park, Rongqiao
Economic and Technological
Development Zone
Fuqing, Fujian 350301, P. R. China
5. TPV Electronics (Fujian) Co., Ltd.
Rongqiao Economic and
Technological Development Zone
Fuqing City, Fujian Province
P. R. China
6. Trend Smart CE Mexico S de RL de CV
Avenida Sor Juana Ines de la Cruz
de 19602 Nueva Tijuana,
22435 Tijuana Baja California
MEXICO
7. TPV Display Technology (Beihai)
Co., Ltd.
China Electronic Beihai Industry
Park, Northeast of the Crossing
Between Taiwan Road and Jilin Road, Beihai City, Guangxi, P. R. China
8. TPV Technology (Qingdao)
Co., Ltd.
No.99 Huoju Road, High-tech
Industrial Development Zone
Qingdao City, Shandong Province, P. R. China
9. TPV Display Technology (China)
Co., Ltd.
No. 106 Jinghai 3 Rd., BDA
Beijing City 100176
P. R. China

Additional information (if necessary)
Information complémentaire (si nécessaire)

Report Ref. No.: 50117328 002



Date: 07.03.2018

Signature:

Aegean Li

10. Hefei Huntkey Display Technology Co., Ltd.
South Jinxiu Road,
East Qingtan Road, Economic And
Technological Development Zone, Hefei, Anhui 230601, P. R. China
11. TPV Electronics (Fujian) Co., Ltd.
Optoelectronic Park,
Rongqiao Economic and
Technological Development Zone,
Fuqing City, Fujian Province 350301, P. R. China
12. Envision Indústria de Produtos
Eletrônicos Ltda.
Av. Torquato Tapajós, 2236,
Flores - CEP 69058-830 - Manaus/AM
Brazil

Additional information (if necessary)
Information complémentaire (si nécessaire)

Report Ref. No.: 50117328 002



Date: 07.03.2018

Signature:

Aegean Li

TPV Electronics (Fujian) Co., Ltd.
Mr. Xinliang Wu
RD-SE
Rongqiao Economic and
Technological Development Zone
Fuqing City, Fujian Province
P. R. China

Date : 07.03.2018
Our ref. : LINSTE SZ
Your ref.: 164118703

Ref : CB Certificate Japan

Type of Equipment : LCD monitor (LED Backlight)
Model Designation : See Certificate
Certificate No. : JPTUV-085699-M1
Report No. : 50117328 002

Dear Mr. Xinliang Wu,

Thank you very much for your interest in our services.

Please find enclosed your certification documents.

We appreciate your support and would like to offer our assistance in the approval of your future products through our extensive range of technical services.

Please feel free to contact us whatever your requirements may be.

With kind regards,

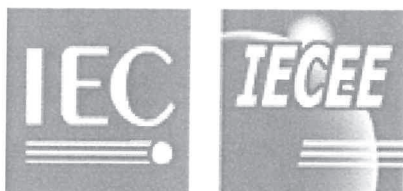
Certification Body

Aegean Li 

CC: TPV Electronics (Fujian) Co., Ltd.

Enclosure

证书的详细资料请登陆www.certipedia.com查阅,或拨打我司客服热线800 999 3668 / 400 883 1300咨询

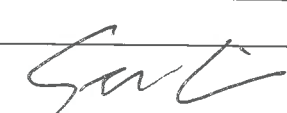


Test Report issued under the responsibility of:



TÜVRheinland®

TEST REPORT IEC 60950-1 Information technology equipment – Safety – Part 1: General requirements	
Report Number.	50117328 002
Date of issue	06.Mar.2018
Total number of pages	57 pages
Applicant's name	TPV Electronics (Fujian) Co., Ltd.
Address	Rongqiao Economic and Technological Development Zone, Fuqing City, Fujian Province, P.R. China
Test specification:	
Standard	IEC 60950-1:2005 (Second Edition) + Am 1:2009 + Am 2:2013
Test procedure	CB Scheme
Non-standard test method	N/A
Test Report Form No.	IEC60950_1F
Test Report Form(s) Originator	SGS Fimko Ltd
Master TRF	Dated 2014-02
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If this Test Report Form is used by non-IECEE members, the IECEE/IEC logo and the reference to the CB Scheme procedure shall be removed.	
This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.	
General disclaimer:	
The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Issuing CB Testing Laboratory. The authenticity of this Test Report and its contents can be verified by contacting the NCB, responsible for this Test Report.	

Test item description		LCD monitor (LED Backlight)	
Trade Mark		AOC	
Manufacturer		Same as applicant	
Model/Type reference		22P1D, 22E1, **22***** (* can be 0-9, A-Z, a-z, -, \, /, + or blank, represent different enclosure colour for marketing purpose)	
Ratings		I/P: 100-240V~, 50/60Hz, 1.5A	
Testing procedure and testing location:			
☒	CB Testing Laboratory:	TÜV Rheinland (Shenzhen) Co., Ltd.	
Testing location/ address		East of F/1, F/2~F/4, Building 1, Cybio Technology Building No. 6 Langshan No.2 Road, North Hi-tech Industry Park 518057 Shenzhen Nanshan District CHINA	
☐	Associated CB Testing Laboratory:		
Testing location/ address			
Tested by (name + signature).....		Steven Lin Project Manager	
Approved by (name + signature).....		Anderson Wang Technical Reviewer	
☐	Testing procedure: TMP/CTF Stage 1:	N/A	
Testing location/ address			
Tested by (name + signature).....			
Approved by (name + signature).....			
☐	Testing procedure: WMT/CTF Stage 2:	N/A	
Testing location/ address			
Tested by (name + signature).....			
Witnessed by (name + signature)			
Approved by (name + signature).....			
☐	Testing procedure: SMT/CTF Stage 3 or 4:	N/A	
Testing location/ address			
Tested by (name + signature).....			
Witnessed by (name + signature)			
Approved by (name + signature).....			
Supervised by (name + signature).....			

List of Attachments (including a total number of pages in each attachment):

- Photo documentation
- Measurement Section

Total number of pages in each attachment is indicated in individual attachment.

Summary of testing:**Tests performed (name of test and test clause):**

name of test	test clause number
Input Current Test	1.6.2
Access to energized parts	2.1.1.1
Energy hazard in Operator Access Area	2.1.1.5
Discharge of Capacitors	2.1.1.7
SELV limits for Normal Conditions	2.2.2
SELV limits for Abnormal Conditions	2.2.3
Limited current circuit	2.4
Limited power source	2.5
Ground continue test	2.6.3.4
Humidity Conditioning	2.9.2
Working Voltage over Insulation	2.10.2
Clearance and creepage distance measurements	2.10.3 & 2.10.4
Stability test	4.1
Steady force test, 10 N	4.2.2
Steady Force Test, 30N	4.2.3
Steady Force Test, 250N	4.2.4
Impact Test	4.2.5
Stress Relief Test	4.2.7
Wall mounting test	4.2.10
Maximum Temperature Test	4.5.2
Ball pressure test	4.5.5
Openings in enclosures	4.6
Touch current and protective conductor current	5.1.6
Electric Strength Test	5.2
Fault Condition Test	5.3

The EUT passed the test.

Testing location:

All tests as described in Test Case and Measurement Sections were performed at the laboratory described on page 2.

Summary of compliance with National Differences

List of countries addressed:

EU Group Differences, EU Special National Conditions, EU A-Deviations, AT, AU, BE, CA, CH, CN, CZ, DE, DK, FI, FR, GB, GR, HU, IT, IL*, JP, KR*, NL, NO, PL, SE, SI, SK, US

Explanation of used codes: AT=Austria, AU=Australia, BE=Belgium, CA=Canada, CH=Switzerland, CN=China, CZ=Czech Republic, DE=Germany, DK=Denmark, FI=Finland, FR=France, GB=United Kingdom, GR=Greece, HU=Hungary, IT=Italy, IL=Israel, JP=Japan, KR=Korea, NL=The Netherlands, NO=Norway, PL=Poland, SE=Sweden, SI=Slovenia, SK=Slovakia, US=United States of America

For National Differences see end of this test report.

* National differences to IEC 60950-1:2005 (Second Edition) + Am 1:2009 evaluated.

☒ The product fulfils the requirements of EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013.

See original report 50117328 001 for evaluation of national differences.

Copy of marking plate

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.



Note:

All models' rating labels are in the same design except for type designation. Above label is representing the other models. See others in original CB report 50117328 001.

Test item particulars.....:	
Equipment mobility.....:	☒ movable (for unit with base stand) ☐ hand-held ☐ transportable ☒ stationary (for unit without base stand) ☐ for building-in ☐ direct plug-in
Connection to the mains	☒ pluggable equipment ☒ type A ☐ type B ☐ permanent connection ☒ detachable power supply cord ☐ non-detachable power supply cord ☐ not directly connected to the mains
Operating condition.....:	☒ continuous ☐ rated operating / resting time:
Access location	☒ operator accessible ☐ restricted access location
Over voltage category (OVC)	☐ OVC I ☒ OVC II ☐ OVC III ☐ OVC IV ☐ other:
Mains supply tolerance (%) or absolute mains supply values	±10% (requested by client)
Tested for IT power systems	☒ Yes ☐ No
IT testing, phase-phase voltage (V)	230 for Norway
Class of equipment	☒ Class I ☐ Class II ☐ Class III ☐ Not classified
Considered current rating of protective device as part of the building installation (A)	16A (20A for North America)
Pollution degree (PD)	☐ PD 1 ☒ PD 2 ☐ PD 3
IP protection class	IP20
Altitude during operation (m)	≤5000
Altitude of test laboratory (m)	<2000
Mass of equipment (kg)	Unit without base stand: 2.44kg (base type A weight 1.79kg; base type B weight 0.38kg)
Possible test case verdicts:	
- test case does not apply to the test object : N/A	
- test object does meet the requirement..... : P (Pass)	
- test object does not meet the requirement : F (Fail)	
Testing..... :	
Date of receipt of test item..... : 23.Jan.2018	
Date(s) of performance of tests : 23.Jan.2018-09.Feb.2018	
General remarks:	
"(see Enclosure #)" refers to additional information appended to the report. "(see appended table)" refers to a table appended to the report.	
Throughout this report a ☐ comma / ☒ point is used as the decimal separator.	

Manufacturer's Declaration per sub-clause 4.2.5 of IECEE 02:

The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided

☒ **Yes**
☐ **Not applicable**

When differences exist; they shall be identified in the General product information section.

Name and address of factory (ies)..... :

- 1 TPV Display Technology (Wuhan) Co., Ltd.
Unique No. 11, Zhuankou Development District of Economic Technological Development Zone, Wuhan City 430056, P.R. China
- 2 TPV Electronics (Fujian) Co., Ltd.
Shangzheng, Yuan Hong Road, Fuqing City, Fujian Province, P.R. China
- 3 Envision Industry of Electronic Products Ltd.
Rodovia Anhanguera S/N-KM 49 Tijuco Preto-Jundiaí-SP-13.205-700, Brazil
- 4 L&T Display Technology (Fujian) Ltd.
Optoelectronic Park, Rongqiao Economic and Technological, Development Zone, Fuqing, Fujian 350301, P.R. China
- 5 TPV Electronics (Fujian) Co., Ltd.
Rongqiao Economic and Technological Development Zone, Fuqing City, Fujian Province, P.R. China
- 6 Trend Smart CE Mexico S de RL de CV
Avenida Sor Juana Ines de la Cruz de 19602 Nueva Tijuana, 22435 Tijuans Baja California, MEXICO
- 7 TPV Display Technology (Beihai) Co., Ltd.
China Electronic Beihai Industry Park, Northeast of the Crossing Between Taiwan Road and Jilin Road, Beihai City, Guangxi, P.R. China
- 8 TPV Technology (Qingdao) Co., Ltd.
No.99 Huoju Road, High-tech Industrial Development Zone, Qingdao City, Shandong Province, P.R. China
- 9 TPV Display Technology (China) Co., Ltd.
No.106 Jinghai 3 Rd., BDA, Beijing City 100176, P.R. China.
- 10 Hefei Huntkey Display Technology Co.,Ltd.
South Jinxiu Road, East Qingtan Road, Economic And Technological Development Zone, Hefei, Anhui 230601, P.R. China
- 11 TPV Electronics (Fujian) Co., Ltd.
Optoelectronic Park, Rongqiao Economic and Technological Development Zone, Fuqing City, Fujian Province 350301, P.R. China
- 12 Envision Indústria de Produtos Eletrônicos Ltda.
Av. Torquato Tapajós, 2236, Flores - CEP 69058-830 - Manaus/AM Brazil

General product information:

Description of change(s):

1. Add new model name 22E1, which is identical to original model 22P1D except for type designation;
2. Change original model name from "22*****" to "***22*****" by client's request, no technical difference;
3. Change the audio ports on original main board 715G9494 to be optional use;
4. Update technical data for panel TPM215*** (TPV);
5. Add description for original base stand (defined as type A), which can be rotated 90° clockwise when power board on bottom;
6. Add alternative power boards 715G7300 and 715G7610;
Power board 715G7300 is identical to original power board 715G9546 except for different PCB layout and cancel primary switch.
7. Add alternative main boards 715G9496 and 715G9483;
8. Add new USB board 715G9509 used with new power board 715G7610 only;
9. Add alternative metal enclosures type B, type C and type D, meanwhile original metal enclosure defined as type A;
10. Add alternative base stand type B, meanwhile original base stand defined as type A;
11. Add alternative plastic enclosure type B, meanwhile original plastic enclosure defined as type A.

For the above described change(s) the following was considered to be necessary:

Change	Testing	Comments
1.	N/A	See copy of marking plate for details.
2.-3.	N/A	N/A
4.	N/A	See appended table 1.5.1 for details.
5. -11.	See page 3 for test clauses.	See below table A for construction details. See following pages for test details.

Table A: different construction between models:

Model	Power board	Main board ^{1.}	USB board	Metal enclosure ^{2.}	Base stand ^{3.}	Plastic enclosure ^{4.}
22P1D, 22E1, ***22*****	715G9546	715G9494	N/A	Type A	Type A	Type A
	715G7300	715G9494		Type B	Type B	
		715G9496		Type A	Type A	
	715G7610	715G9483		Type C	Type B	
	715G7610	715G9483	715G9509	Type D	Type A	Type B

Supplementary information:

1. Main board 715G9494 with VGA, DVI, HDMI and audio ports (audio ports are optional use);
Main board 715G9496 with VGA, HDMI, DP and audio ports (audio ports are optional use);
Main board 715G9483 with VGA, DVI, HDMI, DP and audio ports (audio ports are optional use).
2. Metal enclosure type B is identical to type A except for rear metal shape after power board and adding one opening near power board, which was covered by mylar sheet on type A;
Metal enclosure type C is identical to type B except for adding one opening near main board.

3. Base type A is height adjustable and rotational;
Base type B is stationary type.
4. Plastic enclosure type B is identical to type A except for adding rear openings for USB ports.

Additional information:

1. The manufacturer declared that the product also fulfilled of the requirements of SANS 60950-1: 2014 (Edition 2.2) / IEC 60950-1: 2013 (Edition 2.2).
2. The audio output jack has also tested and founded in compliance with the requirements of EN 50332-2. Measured output power of the output jack: 109mV for main board 715G9496, 98mV for main board 715G9483.

Definition of variable(s):

Variable:	Range of variable:	Content:
*	0-9, A-Z, a-z, -, \, /, + or blank	Represent different enclosure colour for marketing purpose. Model names 22P1D and 22E1 are the specified model name of **22*****, listed by client's request.

History of modification:

Ref. No. 50117328 001, dated 22.Jan.2018 (original test report);
Ref. No. 50117328 002, dated 06.Mar.2018 (modification)

Abbreviations used in the report:

- normal conditions	N.C.	- single fault conditions	S.F.C
- functional insulation	OP	- basic insulation	BI
- double insulation	DI	- supplementary insulation	SI
- between parts of opposite polarity	BOP	- reinforced insulation	RI

Indicate used abbreviations (if any)

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
1	GENERAL		P
1.5	Components		P
1.5.1	General		P
	Comply with IEC 60950-1 or relevant component standard	(see appended table 1.5.1)	P
1.5.2	Evaluation and testing of components	Components which are certified to IEC and/or national standards are used correctly within their ratings. Components not covered by IEC standards are tested under the conditions present in the equipment.	P
1.5.3	Thermal controls	No thermal controls.	N/A
1.5.4	Transformers	Transformers used are suitable for their intended application and comply with the relevant requirements of the standard and particularly Annex C.	P
1.5.5	Interconnecting cables	Interconnecting cable does not carry voltage higher than SELV and no higher energy level than 240VA.	P
1.5.6	Capacitors bridging insulation	Between lines: X1 or X2 capacitor according to IEC 60384-14 was used. Between primary and earth: Y1 or Y2 capacitors according to IEC 60384-14 were used. Between primary and secondary: Y1 capacitor according to IEC 60384-14 was used. (see appended table 1.5.1)	P
1.5.7	Resistors bridging insulation		P
1.5.7.1	Resistors bridging functional, basic or supplementary insulation	Only discharge resistors bridging between L-N (functional)	P
1.5.7.2	Resistors bridging double or reinforced insulation between a.c. mains and other circuits		N/A
1.5.7.3	Resistors bridging double or reinforced insulation between a.c. mains and antenna or coaxial cable		N/A
1.5.8	Components in equipment for IT power systems	(see appended table 1.5.1.)	P

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
1.5.9	Surge suppressors	No surge suppressors.	N/A
1.5.9.1	General		N/A
1.5.9.2	Protection of VDRs		N/A
1.5.9.3	Bridging of functional insulation by a VDR		N/A
1.5.9.4	Bridging of basic insulation by a VDR		N/A
1.5.9.5	Bridging of supplementary, double or reinforced insulation by a VDR		N/A

1.6	Power interface		P
1.6.1	AC power distribution systems	Considered.	P
1.6.2	Input current	(see appended table 1.6.2)	P
1.6.3	Voltage limit of hand-held equipment	This appliance is not hand-held equipment.	N/A
1.6.4	Neutral conductor	The neutral conductor insulated from earth and from the body throughout the equipment as if it were a line conductor	P

1.7	Marking and instructions		P
1.7.1	Power rating and identification markings	See below.	P
1.7.1.1	Power rating marking	See below.	P
	Multiple mains supply connections.....:		N/A
	Rated voltage(s) or voltage range(s) (V)	See copy of marking plate for details	P
	Symbol for nature of supply, for d.c. only	AC source	N/A
	Rated frequency or rated frequency range (Hz)	See copy of marking plate for details	P
	Rated current (mA or A)	See copy of marking plate for details	P
1.7.1.2	Identification markings	See below.	P
	Manufacturer's name or trade-mark or identification mark	See copy of marking plate for details	P
	Model identification or type reference	See copy of marking plate for details	P
	Symbol for Class II equipment only	Class I equipment.	N/A
	Other markings and symbols	Additional symbol or marking does not give rise to misunderstanding.	P

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
1.7.1.3	Use of graphical symbols	Graphical symbols used according to IEC 60417 or ISO 3864-2 or ISO 7000.	P
1.7.2	Safety instructions and marking	English safety instruction provided.	P
1.7.2.1	General		P
1.7.2.2	Disconnect devices	AC inlet serves as disconnect device.	P
1.7.2.3	Overcurrent protective device	Not type B pluggable equipment or permanently connected equipment.	N/A
1.7.2.4	IT power distribution systems	For Norway compliance has to be evaluated during the national approval.	N/A
1.7.2.5	Operator access with a tool	No such access required.	N/A
1.7.2.6	Ozone	Ozone not used or generated.	N/A
1.7.6	Fuse identification (marking, special fusing characteristics, cross-reference)	The fuse marking is marked near fuse on PCB as follow: On power board 715G7300: F901(on primary): T3.15AL/250Vac CAUTION: RISK OF FIRE REPLACE ONLY WITH SAME TYPE AND RATING OF FUSE. On power board 715G7610: F9901(on primary): T5AL/250V CAUTION: RISK OF FIRE REPLACE ONLY WITH SAME TYPE AND RATING OF FUSE. F901(on secondary): T4AL/250V Not located in operator access areas.	P

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
1.7.11	Durability	The label was subjected to the permanence of marking test. The label was rubbed with cloth soaked with water for 15 sec. and then again for 15 sec. with the cloth soaked with petroleum spirit. After this test there was no damage to the label. The marking on the label did not fade. There was no curling or lifting of the label edge.	P

2	PROTECTION FROM HAZARDS		P
2.1	Protection from electric shock and energy hazards		P
2.1.1	Protection in operator access areas	Only SELV signal interface accessible by operator.	P
2.1.1.1	Access to energized parts	See below	P
	Test by inspection	Protection established by plastic enclosure.	P
	Test with test finger (Figure 2A)	Protection established by plastic enclosure.	P
	Test with test pin (Figure 2B)	No access to any energized parts with the removable stand detached.	P
	Test with test probe (Figure 2C)		N/A
2.1.1.2	Battery compartments	No battery compartment.	N/A
2.1.1.3	Access to ELV wiring	No ELV wiring in operator accessible area.	N/A
	Working voltage (V_{peak} or V_{rms}); minimum distance through insulation (mm)		—
2.1.1.4	Access to hazardous voltage circuit wiring	No hazardous voltage wiring in operator accessible area.	N/A
2.1.1.5	Energy hazards	The energy does not exceed 240VA between any two points in accessible connector of secondary circuit. (see appended table 2.1.1.5.)	P
2.1.1.6	Manual controls	No manual controls.	N/A
2.1.1.7	Discharge of capacitors in equipment	(See appended table 2.1.1.7)	P
	Measured voltage (V); time-constant (s)	(See appended table 2.1.1.7)	—

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
2.2	SELV circuits		P
2.2.1	General requirements	The secondary circuits were tested as SELV. See sub-clauses 2.2.1 to 2.2.4.	P
2.2.2	Voltages under normal conditions (V)	42.4V peak or 60V d.c. are not exceeded in SELV circuit under normal operation.	P
2.2.3	Voltages under fault conditions (V)	Single fault did not cause excessive voltage in accessible SELV circuits. Limits of 71V peak and 120V d.c. were not exceeded within 0.2 sec. and limits 42.4V peak and 60V d.c. were not exceeded for longer than 0.2 sec., see appended tables 2.2 and 5.3.	P
2.2.4	Connection of SELV circuits to other circuits	See sub-clauses 2.2.2 and 2.2.3. No direct connection between SELV and any primary circuits.	P
2.4	Limited current circuits		P
2.4.1	General requirements	On power board 715G7300: Primary circuit and secondary circuit bridged by Y1 type capacitor C913. On power board 715G7610: Primary circuit and secondary circuit bridged by Y1 type capacitor C9902.	P
2.4.2	Limit values	(see appended table 2.4.2)	P
	Frequency (Hz)		—
	Measured current (mA).....	(see appended table 2.4.2)	—
	Measured voltage (V)		—
	Measured circuit capacitance (nF or μ F)	(see appended table 2.4.2)	—
2.4.3	Connection of limited current circuits to other circuits	Only intended to be connected with SELV circuits.	P
2.5	Limited power sources		P
	a) Inherently limited output		N/A
	b) Impedance limited output		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	c) Regulating network or IC current limiter, limits output under normal operating and single fault condition	(see appended table 2.5)	P
	Use of integrated circuit (IC) current limiters		N/A
	d) Overcurrent protective device limited output		N/A
	Max. output voltage (V), max. output current (A), max. apparent power (VA).....:	(see appended table 2.5)	—
	Current rating of overcurrent protective device (A) ..:		—

2.6	Provisions for earthing and bonding		P
2.6.1	Protective earthing	Class I appliance inlet terminal provided as protective earthing terminal, and accessible metal plate is connected to earthed metal fire enclosure. The test of 2.6.3.4 complied.	P
2.6.2	Functional earthing	Functional earthing in the secondary circuit is accessible at the VGA connector and separated from the primary by reinforced insulation.	P
	Use of symbol for functional earthing		N/A
2.6.3	Protective earthing and protective bonding conductors		P
2.6.3.1	General	Appliance inlet used. No power cord provided with the unit.	P
2.6.3.2	Size of protective earthing conductors	AC inlet used	N/A
	Rated current (A), cross-sectional area (mm ²), AWG		—
2.6.3.3	Size of protective bonding conductors	Screws fixing earthed PCB trace to metal chassis for protective bonding.	P
	Rated current (A), cross-sectional area (mm ²), AWG	Refer to test of appended table 2.6.3.4 only.	—
	Protective current rating (A), cross-sectional area (mm ²), AWG	Refer to test of appended table 2.6.3.4 only.	—
2.6.3.4	Resistance of earthing conductors and their terminations; resistance (Ω), voltage drop (V), test current (A), duration (min)	(see appended table 2.6.3.4)	P
2.6.3.5	Colour of insulation	Protective bonding conductor as in 2.6.3 and assembled by printed wiring on power board.	N/A
2.6.4	Terminals	See below	P

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Clause	Requirement + Test	Result - Remark	Verdict
2.6.4.1	General		P
2.6.4.2	Protective earthing and bonding terminals	The earth terminal of the approved appliance inlet is considered as protective earthing terminal and was evaluated by sub clause 2.6.3.4.	P
	Rated current (A), type, nominal thread diameter (mm)	Evaluation by test. See sub-clause 2.6.3.4.	—
2.6.4.3	Separation of the protective earthing conductor from protective bonding conductors	Separated PE and protective bonding conductor used.	P
2.6.5	Integrity of protective earthing	See below	P
2.6.5.1	Interconnection of equipment	Not depending on interconnection for protective earthing.	P
2.6.5.2	Components in protective earthing conductors and protective bonding conductors	No switch or overcurrent protective device in protective earthing or bonding conductor	P
2.6.5.3	Disconnection of protective earth	Appliance inlet used for disconnection of protective earth.	P
2.6.5.4	Parts that can be removed by an operator	AC inlet with PE terminal used.	P
2.6.5.5	Parts removed during servicing		N/A
2.6.5.6	Corrosion resistance	All safety earthing connections comply with Annex J.	P
2.6.5.7	Screws for protective bonding	No self-tapping or spaced thread screws are used. For the earth connection to the metal chassis a spring washer and a screw are used.	N/A
2.6.5.8	Reliance on telecommunication network or cable distribution system	No TNV circuit.	N/A

2.7	Overcurrent and earth fault protection in primary circuits		P
2.7.1	Basic requirements	The equipment relies on fuse or circuit breaker of the wall outlet protection of the building installation in regard to L to N short-circuits. A build-in fuse provided as overcurrent protection device (see 5.3)	P
	Instructions when protection relies on building installation	Pluggable equipment type A.	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
2.7.2	Faults not simulated in 5.3.7	The protection devices are well dimensioned and mounted.	P
2.7.3	Short-circuit backup protection	Building installation is considered as providing short-circuit backup protection.	P
2.7.4	Number and location of protective devices :	Overcurrent protection by one built-in fuse	P
2.7.5	Protection by several devices	Protection by one fuse only.	N/A
2.7.6	Warning to service personnel :	No service work necessary.	N/A

2.9	Electrical insulation		P
2.9.1	Properties of insulating materials	Natural rubber, asbestos or hygroscopic material not used. After the humidity treatment of 2.9.2, the insulation is then subjected to the relevant electric strength test of 5.2.2.	P
2.9.2	Humidity conditioning	Performed at 40 °C, 95% R.H. for 120 h by client's request.	P
	Relative humidity (%), temperature (°C) :	See above.	—
2.9.3	Grade of insulation	See above.	P
2.9.4	Separation from hazardous voltages	The adequate levels of safety insulation provided and maintained to comply with the requirements of this standard.	P
	Method(s) used :	SELV separated from primary by reinforced or double insulation.	—

2.10	Clearances, creepage distances and distances through insulation		P
2.10.1	General	See sub-clauses 2.10.3, 2.10.4 and 2.10.5.	P
2.10.1.1	Frequency :	Considered	P
2.10.1.2	Pollution degrees :	2	P
2.10.1.3	Reduced values for functional insulation	Considered	P
2.10.1.4	Intervening unconnected conductive parts	Considered	P
2.10.1.5	Insulation with varying dimensions	Insulation kept homogenous.	N/A
2.10.1.6	Special separation requirements	Not applied.	N/A
2.10.1.7	Insulation in circuits generating starting pulses	No such circuits.	N/A
2.10.2	Determination of working voltage		P

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Clause	Requirement + Test	Result - Remark	Verdict
2.10.2.1	General	Considered.	P
2.10.2.2	RMS working voltage	See table 2.10.2	P
2.10.2.3	Peak working voltage	See table 2.10.2	P
2.10.3	Clearances	See below and advantage of annex G is not considered.	P
2.10.3.1	General	Considered.	P
2.10.3.2	Mains transient voltages		P
	a) AC mains supply	240V a.c. and Overvoltage Category II	P
	b) Earthed d.c. mains supplies		N/A
	c) Unearthed d.c. mains supplies		N/A
	d) Battery operation		N/A
2.10.3.3	Clearances in primary circuits	(see appended table 2.10.3 and 2.10.4)	P
2.10.3.4	Clearances in secondary circuits	Sub-clause 5.3.4 considered.	P
2.10.3.5	Clearances in circuits having starting pulses		N/A
2.10.3.6	Transients from a.c. mains supply	Normal transient voltage considered (overvoltage category II for primary circuit).	N/A
2.10.3.7	Transients from d.c. mains supply		N/A
2.10.3.8	Transients from telecommunication networks and cable distribution systems		N/A
2.10.3.9	Measurement of transient voltage levels		N/A
	a) Transients from a mains supply		N/A
	For an a.c. mains supply		N/A
	For a d.c. mains supply		N/A
	b) Transients from a telecommunication network :		N/A
2.10.4	Creepage distances		P
2.10.4.1	General		P
2.10.4.2	Material group and comparative tracking index		P
	CTI tests	Material group IIIb is assumed to be used.	—
2.10.4.3	Minimum creepage distances	(see appended table 2.10.3 and 2.10.4)	P
2.10.5	Solid insulation		P
2.10.5.1	General		P
2.10.5.2	Distances through insulation	(see appended table 2.10.5)	P

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
2.10.5.3	Insulating compound as solid insulation	Only inside approved optocoupler.	N/A
2.10.5.4	Semiconductor devices	Approved optocoupler complies to IEC 60747-5-5 and having dti. 0.4mm.	P
2.10.5.5.	Cemented joints	Not applied.	N/A
2.10.5.6	Thin sheet material – General		P
2.10.5.7	Separable thin sheet material	Used in transformer.	P
	Number of layers (pcs)	(see appended table C.2)	—
2.10.5.8	Non-separable thin sheet material	Not applied for.	N/A
2.10.5.9	Thin sheet material – standard test procedure		N/A
	Electric strength test		—
2.10.5.10	Thin sheet material – alternative test procedure		P
	Electric strength test	(see appended table 5.2)	—
2.10.5.11	Insulation in wound components	See only 2.10.5.6.	P
2.10.5.12	Wire in wound components		P
	Working voltage	Exceeds 71 V.	P
	a) Basic insulation not under stress		N/A
	b) Basic, supplementary, reinforced insulation	Reinforced.	P
	c) Compliance with Annex U		P
	Two wires in contact inside wound component; angle between 45° and 90°	Secondary insulated wires crossing each other at an angle between 45° and 90° are protected against mechanical stress by tubing and insulating tape.	P
2.10.5.13	Wire with solvent-based enamel in wound components	Not applied.	N/A
	Electric strength test		—
	Routine test		N/A
2.10.5.14	Additional insulation in wound components	Not applied.	N/A
	Working voltage		N/A
	- Basic insulation not under stress		N/A
	- Supplementary, reinforced insulation		N/A
2.10.6	Construction of printed boards		P
2.10.6.1	Uncoated printed boards	(see appended table 2.10.3 and 2.10.4)	P
2.10.6.2	Coated printed boards	Not applied.	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
2.10.6.3	Insulation between conductors on the same inner surface of a printed board	Not multi-layer printed board.	N/A
2.10.6.4	Insulation between conductors on different layers of a printed board	See above.	N/A
	Distance through insulation		N/A
	Number of insulation layers (pcs)		N/A

3	WIRING, CONNECTIONS AND SUPPLY		P
3.1	General		P
3.1.1	Current rating and overcurrent protection	The cross-sectional area and the temperature of the internal wires are adequate.	P
3.1.2	Protection against mechanical damage	Wires do not touch sharp edges which could damage the insulation and cause hazard.	P
3.1.3	Securing of internal wiring	Wires with only basic insulation are routed so that they are not close to any live bare components. Wires are secured by soldering method and additionally fixed by glue or by connectors.	P
3.1.4	Insulation of conductors	The insulation of the individual conductors suitable for the application and the working voltage. For the insulation material see 3.1.1.	P
3.1.5	Beads and ceramic insulators	Not used.	N/A
3.1.6	Screws for electrical contact pressure	Only metal screw is used for electrical connection between protective earth and metal chassis, and engages more than 2 complete threads.	P
3.1.7	Insulating materials in electrical connections	The integrity of protective bonding made by screw, PCB trace and spring washer.	P
3.1.8	Self-tapping and spaced thread screws	No self-tapping or spaced thread screws are used.	N/A
3.1.9	Termination of conductors	All conductors are reliably secured.	P
	10 N pull test		P
3.1.10	Sleeving on wiring		N/A

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
3.5	Interconnection of equipment		P
3.5.1	General requirements	This power supply is not considered for connection to TNV.	P
3.5.2	Types of interconnection circuits	Interconnection circuits of SELV through the connector. No ELV interconnection circuits.	P
3.5.3	ELV circuits as interconnection circuits	No ELV interconnection	N/A
3.5.4	Data ports for additional equipment	All data ports are supplied by LPS.	P

4	PHYSICAL REQUIREMENTS		P
4.1	Stability		P
	Angle of 10°	No overturn. (Test by client's request)	P
	Test force (N)	Equipment is not a floor standing unit.	N/A

4.2	Mechanical strength		P
4.2.1	General	See below. After tests, unit comply with 2.1.1, 2.6.1 and 2.10.	P
	Rack-mounted equipment.		N/A
4.2.2	Steady force test, 10 N	Test performed on internal components. No components located such that distances according to 2.10 can be reduced.	P
4.2.3	Steady force test, 30 N	Test performed on internal metal enclosure.	P
4.2.4	Steady force test, 250 N	Test performed on plastic enclosure.	P
4.2.5	Impact test	500g steel ball falls freely from 1.3m on top, back and bottom of plastic enclosure, no access to hazardous parts.	P
	Fall test		P
	Swing test		N/A
4.2.6	Drop test; height (mm)		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
4.2.7	Stress relief test	70°C, 7 hours, no deformation on all sources of plastic enclosure.	P
4.2.8	Cathode ray tubes	No CRT	N/A
	Picture tube separately certified		N/A
4.2.9	High pressure lamps	No high pressure lamps	N/A
4.2.10	Wall or ceiling mounted equipment; force (N)	An additional force 72N applied downwards through the centre of gravity of the equipment for 1 min after the removal of base (by client's request). After the test, the equipment was not damaged.	P

4.3	Design and construction		P
4.3.1	Edges and corners	Edges and corners of the enclosure are rounded.	P
4.3.2	Handles and manual controls; force (N)	No safety relevant handles or manual controls.	N/A
4.3.3	Adjustable controls	No such controls.	N/A
4.3.4	Securing of parts	All parts secured properly. Spring washer used for securing screws.	P
4.3.13	Radiation		P
4.3.13.1	General	See below	P
4.3.13.2	Ionizing radiation	No ionizing radiation.	N/A
	Measured radiation (pA/kg)		—
	Measured high-voltage (kV)		—
	Measured focus voltage (kV)		—
	CRT markings		—
4.3.13.3	Effect of ultraviolet (UV) radiation on materials	No ultraviolet radiation	N/A
	Part, property, retention after test, flammability classification		N/A
4.3.13.4	Human exposure to ultraviolet (UV) radiation	No ultraviolet radiation	N/A
4.3.13.5	Lasers (including laser diodes) and LEDs	See below.	P
4.3.13.5.1	Lasers (including laser diodes)	Not used.	N/A
	Laser class		—

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Clause	Requirement + Test	Result - Remark	Verdict
4.3.13.5.2	Light emitting diodes (LEDs)	The following parts are considered complied without tests: Indicating lights. Optocouplers. For LED backlight, the luminance is far less than 10000 cd/m ² . With reference to sub clause 4.1 of IEC 62471:2006 no further test is necessary.	P
4.3.13.6	Other types		N/A

4.5	Thermal requirements		P
4.5.1	General		P
4.5.2	Temperature tests		P
	Normal load condition per Annex L	Equipment loaded with rated output current.	—
4.5.3	Temperature limits for materials	(see appended table 4.5)	P
4.5.4	Touch temperature limits	(see appended table 4.5)	P
4.5.5	Resistance to abnormal heat	Bobbin materials of transformer are Phenolic that is accepted without further tests.	P

4.6	Openings in enclosures		P
4.6.1	Top and side openings	See below.	P
	Dimensions (mm)	(see appended table 4.6.1 and 4.6.2)	—
4.6.2	Bottoms of fire enclosures	See below.	P
	Construction of the bottom, dimensions (mm) ..	(see appended table 4.6.1 and 4.6.2)	—
4.6.3	Doors or covers in fire enclosures	No doors or covers.	N/A
4.6.4	Openings in transportable equipment	Not transportable equipment.	N/A
4.6.4.1	Constructional design measures		N/A
	Dimensions (mm)		—
4.6.4.2	Evaluation measures for larger openings		N/A
4.6.4.3	Use of metallized parts		N/A
4.6.5	Adhesives for constructional purposes	No adhesives for constructional purposes.	N/A
	Conditioning temperature (°C), time (weeks)		—

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Clause	Requirement + Test	Result - Remark	Verdict
4.7	Resistance to fire		P
4.7.1	Reducing the risk of ignition and spread of flame	No excessive temperatures. No easily burning materials employed. Fire enclosure provided. Safety relevant components used within their specified temperature limits.	P
	Method 1, selection and application of components wiring and materials	(see appended table 4.7)	P
	Method 2, application of all of simulated fault condition tests		N/A
4.7.2	Conditions for a fire enclosure	Internal metal enclosure used as fire enclosure.	P
4.7.2.1	Parts requiring a fire enclosure	With having the following parts: - Components in primary; - Components in secondary not supplied by LPS; - Insulated wiring.	P
4.7.2.2	Parts not requiring a fire enclosure	For components in secondary circuits supplied by LPS.	P
4.7.3	Materials		P
4.7.3.1	General	PCB rated V-1	P
4.7.3.2	Materials for fire enclosures	Earthed metal enclosure is considered as fire enclosure, which complies without test.	P
4.7.3.3	Materials for components and other parts outside fire enclosures	HB plastic enclosure used, which is outside the fire enclosure.	P
4.7.3.4	Materials for components and other parts inside fire enclosures		P
4.7.3.5	Materials for air filter assemblies	No air filter.	N/A
4.7.3.6	Materials used in high-voltage components	No such high voltage components in this meaning	N/A

5	ELECTRICAL REQUIREMENTS AND SIMULATED ABNORMAL CONDITIONS		P
5.1	Touch current and protective conductor current		P
5.1.1	General	See sub-clauses 5.1.2 to 5.1.6.	P
5.1.2	Configuration of equipment under test (EUT)	See below.	P
5.1.2.1	Single connection to an a.c. mains supply	EUT has only one mains connection.	P
5.1.2.2	Redundant multiple connections to an a.c. mains supply		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
5.1.2.3	Simultaneous multiple connections to an a.c. mains supply		N/A
5.1.3	Test circuit	Using figure 5A.	P
5.1.4	Application of measuring instrument	Using measuring instrument in annex D.	P
5.1.5	Test procedure		P
5.1.6	Test measurements	(see appended table 5.1.6)	P
	Supply voltage (V)		—
	Measured touch current (mA)		—
	Max. allowed touch current (mA)		—
	Measured protective conductor current (mA)		—
	Max. allowed protective conductor current (mA) ...		—
5.1.7	Equipment with touch current exceeding 3,5 mA	Touch current does not exceed 3.5mA.	N/A
5.1.7.1	General		N/A
5.1.7.2	Simultaneous multiple connections to the supply		N/A
5.1.8	Touch currents to telecommunication networks and cable distribution systems and from telecommunication networks	No TNV circuits.	N/A
5.1.8.1	Limitation of the touch current to a telecommunication network or to a cable distribution system		N/A
	Supply voltage (V)		—
	Measured touch current (mA)		—
	Max. allowed touch current (mA)		—
5.1.8.2	Summation of touch currents from telecommunication networks		N/A
	a) EUT with earthed telecommunication ports		N/A
	b) EUT whose telecommunication ports have no reference to protective earth		N/A
5.2	Electric strength		P
5.2.1	General	(see appended table 5.2)	P
5.2.2	Test procedure	(see appended table 5.2)	P
5.3	Abnormal operating and fault conditions		P

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Clause	Requirement + Test	Result - Remark	Verdict
5.3.1	Protection against overload and abnormal operation	Ventilation openings blocked, output of power supply board overloaded, no unaccepted overheating of parts (see appended table 5.3)	P
5.3.2	Motors	Motors not used.	N/A
5.3.3	Transformers	(see appended Annex C and table 5.3)	P
5.3.4	Functional insulation	By short-circuited, results see appended table 5.3.	P
5.3.5	Electromechanical components	No electromechanical component.	N/A
5.3.6	Audio amplifiers in ITE		P
5.3.7	Simulation of faults	(see appended table 5.3.)	P
5.3.8	Unattended equipment	No such equipment.	N/A
5.3.9	Compliance criteria for abnormal operating and fault conditions		P
5.3.9.1	During the tests	No fire or molten metal occurred and no deformation of enclosure during the tests.	P
5.3.9.2	After the tests	No reduction of clearance and creepage distance. Electric strength test is made on basic, supplementary and reinforced insulation after test.	P

C	ANNEX C, TRANSFORMERS (see 1.5.4 and 5.3.3)		P
	Position	See appended table 1.5.1.	—
	Manufacturer	See appended table 1.5.1.	—
	Type	See appended table 1.5.1.	—
	Rated values	See appended table 1.5.1.	—
	Method of protection	By protection circuit.	—
C.1	Overload test	(see appended table 5.3)	P
C.2	Insulation	(see appended table 5.2)	P
	Protection from displacement of windings	Fixed by insulation tape.	P

J	ANNEX J, TABLE OF ELECTROCHEMICAL POTENTIALS (see 2.6.5.6)		P
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IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Metal(s) used	The internal metal enclosure is made of mild steel, screw spring washer are made of Ni on steel, the combined electrochemical potential is below 0.6V according to Table J.1.	—
U	ANNEX U, INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION (see 2.10.5.4)		P
		Approved triple insulated wire used in main transformer.	—

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict

1.5.1	TABLE: List of critical components					P
Object/part No.	Manufacturer/ trademark	Type/model	Technical data	Standard (Edition / year)	Mark(s) of conformity ¹	
LCD Panel	TPV	TPM215*** (*can be 0-9, A-Z or blank for marketing purpose).	21.5 inch TFT LCD (power consumption: 12.42W ; LED array voltage: 47.6V)	IEC 60950-1	Tested in equipment	
(Alternative)	BOE	H*215***-*** (*can be 0-9, A-Z or blank for marketing purpose).	21.5 inch TFT LCD (power consumption: 19.4W; LED array voltage: 54.4V)	IEC 60950-1	Tested in equipment	
(Alternative)	BOE	M*215***-*** (*can be 0-9, A-Z or blank for marketing purpose).	21.5 inch TFT LCD (power consumption: 10.9W; LED array voltage: 52.7V)	IEC 60950-1	Tested in equipment	
(Alternative)	L&T	BM215W**-**** (*can be 0-9, A-Z or blank for marketing purpose).	21.5 inch TFT LCD (power consumption: 16.3W; LED array voltage: 51.2V)	IEC 60950-1	Tested in equipment	
(Alternative)	L&T	LM215W**-**** (*can be 0-9, A-Z or blank for marketing purpose).	21.5 inch TFT LCD (power consumption: 14.25W; LED array voltage: 52.7V)	IEC 60950-1	Tested in equipment	
(Alternative)	CHIMEI INNOLUX	M215H**-**** (*can be 0-9, A-Z or blank for marketing purpose).	21.5 inch TFT LCD (power consumption: 18.3W; LED array voltage: 34.1V)	IEC 60950-1	Tested in equipment	
(Alternative)	INNOLUX	M215H**-**** (*can be 0-9, A-Z or blank for marketing purpose).	21.5 inch TFT LCD (power consumption: 16.53W; LED array voltage: 36.66V)	IEC 60950-1	Tested in equipment	

IEC 60950-1					
Clause	Requirement + Test		Result - Remark		Verdict
(Alternative)	LG Display	LM215**** (*can be 0-9, A-Z or blank for marketing purpose).	21.5 inch TFT LCD (power consumption: 16.21W; LED array voltage: 51.2V)	IEC 60950-1	Tested in equipment
(Alternative)	SAMSUNG	LTM215**** (*can be 0-9, A-Z or blank for marketing purpose).	21.5 inch TFT LCD (power consumption: 13.62W; LED array voltage: 48.2V)	IEC 60950-1	Tested in equipment
(Alternative)	AUO	*215H****.* (*can be 0-9, A-Z or blank for marketing purpose).	21.5 inch TFT LCD (power consumption: 16.55W; LED array voltage: 54.4V)	IEC 60950-1	Tested in equipment
Mylar sheet	SUZHOU OMA Y OPTICAL MATERIALS CO LTD	SE42B, SE42B-F	min. 0.4mm thickness, min. V-1, 105°C	UL 94	UL
(Alternative)	SICHUAN LONGHUA FILM CO LTD	PC-770F, PC-770F-A, PC-770	min. 0.4mm thickness, min. V-1, 105°C	UL 94	UL
(Alternative)	SICHUAN DONGFANG INSULATING MATERIAL CO LTD	DFR700, DFR700F	min. 0.4mm thickness, min. V-1, 105°C	UL 94	UL
(Alternative)	CHENGDU KANGLONGXIN PLASTICS CO LTD	KLX FRPC-1860B, KLX FRPC-1870B	min. 0.4mm thickness, min. V-1, 105°C	UL 94	UL
(Alternative)	CHENGDU KANGLONGXIN PLASTICS CO LTD	KLX FRPC-870B	min. 0.4mm thickness, min. V-1, 105°C	UL 94	UL
(Alternative)	SICHUAN DONGFANG INSULATING MATERIAL CO LTD	DFR117ECOC, DFR117ECOB	min. 0.4mm thickness, min. V-1, 105°C	UL 94	UL
(Alternative)	SICHUAN DONGFANG INSULATING MATERIAL CO LTD	DFR117ECO	min. 0.4mm thickness, min. V-1, 105°C	UL 94	UL

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Clause	Requirement + Test		Result - Remark		Verdict
(Alternative)	JINGMEN GORUN TECHNOLOGY CO LTD	HF70	min. 0.4mm thickness, min. V-1, 105°C	UL 94	UL
(Alternative)	SICHUAN DONGFANG INSULATING MATERIAL CO LTD	DFR3A(d)	min. 0.4mm thickness, min. V-1, 105°C	UL 94	UL
(Alternative)	CHENGDU KANGLONGXIN PLASTICS CO LTD	KLX PP BK-10	min. 0.4mm thickness, min. V-1, 105°C	UL 94	UL
Heat shrinkable tube used on metal pillar near C907	DONGGUAN SALIPT CO LTD	SALIPT S-901-600, SALIPT S-HPT-600	125°C, 600V, min. 0.4mm thickness	--	UL
Switching mode power supply board: 715G7300 by TPV					
AC-Inlet (CN901)	Solteam	ST-01	10A, 250Vac	IEC/ EN 60320-1 UL60320-1	VDE, UL
(Alternative)	Zhang Jia Gang-Hua Jie	SA-4S, SA-4S-1, SA-4D	10A, 250Vac	IEC/ EN 60320-1 UL60320-1	VDE, UL
(Alternative)	Rong Feng	SS-120, SS-7B	10A, 250Vac	IEC/ EN 60320-1 UL60320-1	VDE, UL
(Alternative)	Inalways	0707-1, 0711-2, 0714	10A, 250Vac	IEC/ EN 60320-1 UL60320-1	VDE, UL
(Alternative)	DELIKANG	CDJ-3, CDJ-3-1	10A, 250Vac	IEC/ EN 60320-1 UL60320-1	VDE, UL
(Alternative)	TECX	TU-301 series	10A, 250Vac	IEC/ EN 60320-1 UL60320-1	VDE, UL
(Alternative)	Yueqing Hongchang	DB-14	10A, 250Vac	IEC/ EN 60320-1 UL60320-1	VDE, UL
Fuse (F901)	Littelfuse, Inc. Wickmann	382-series, 392	T3.15AL, 250Vac	IEC/ EN 60127-1 IEC/ EN 60127-3 UL 248-1	VDE, UL
(Alternative)	Littelfuse, Inc.	TE5 400	T3.15AL, 250Vac	IEC/ EN 60127-1 IEC/ EN 60127-3	VDE
(Alternative)	Conquer	MET, MST, PTU	T3.15AL, 250Vac	IEC/ EN 60127-1 IEC/ EN 60127-3 UL 248-1	VDE, UL
(Alternative)	Cooper Bussmann	SR-5, SS-5	T3.15AL, 250Vac	IEC/ EN 60127-1 IEC/ EN 60127-3 UL 248-1	VDE, UL

IEC 60950-1					
Clause	Requirement + Test		Result - Remark		Verdict
(Alternative)	Ever Island Electric Co., Ltd. & Walter Electric	2000, 2010 series	T3.15AL, 250Vac	IEC/ EN 60127-1 IEC/ EN 60127-3 UL 248-1	VDE, UL
Y- Capacitor (C902, C903) Y1 or Y2 type (optional)	Walsin	AC, AH	Max. 680pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
(Alternative)	TDK	CS, CD	Max. 680pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
(Alternative)	Murata	KH, KX	Max. 680pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
(Alternative)	JYA-NAY	JY, JN	Max. 680pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
(Alternative)	Hongming	F	Max. 680pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
(Alternative)	Wansheng	CT7	Max. 680pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
(Alternative)	Haohua	CT7	Max. 680pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
(Alternative)	Samwha	SD	Max. 680pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
(Alternative)	Matsushita	NS-A, NS-B	Max. 680pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
(Alternative)	Success	SB, SE	Max. 680pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
(Alternative)	Yinan Don's	CT81	Max. 680pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Y- Capacitor (C913) Y1 type (optional)	Walsin	AH	Max. 1000pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
(Alternative)	TDK	CD	Max. 1000pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL

IEC 60950-1					
Clause	Requirement + Test		Result - Remark		Verdict
(Alternative)	Murata	KX	Max. 1000pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
(Alternative)	JYA-NAY	JN	Max. 1000pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
(Alternative)	Hongming	F	Max. 1000pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
(Alternative)	Wansheng	CT7	Max. 1000pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
(Alternative)	Haohua	CT7	Max. 1000pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
(Alternative)	Samwha	SD	Max. 1000pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
(Alternative)	Matsushita	NS-A	Max. 1000pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
(Alternative)	Success	SB, SE	Max. 1000pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
(Alternative)	Yinan Don's	CT81	Max. 1000pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
X-Capacitor (X1 or X2 type) (C901) (optional)	Ultra Tech Xiphi	HQX	Max. 0.22μF, Min. 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
(Alternative)	Faratronic	MKP62	Max. 0.22μF, Min. 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
(Alternative)	Hua Jung	MKP	Max. 0.22μF, Min. 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	ENEC(Semko), UL
(Alternative)	Nanjing Tengen Rongguangda	MKP	Max. 0.22μF, Min. 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
(Alternative)	Europtronic	MPX, MPX2	Max. 0.22μF, Min. 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
(Alternative)	Liow Gu	GS-L	Max. 0.22μF, Min. 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL

IEC 60950-1					
Clause	Requirement + Test		Result - Remark		Verdict
(Alternative)	Arcotronics (KEMET)	R.46	Max. 0.22μF, Min. 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	ENEC(IMQ), UL
(Alternative)	EPCOS	B3292#	Max. 0.22μF, Min. 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
(Alternative)	ZhuHai Sung Ho Electronics Co., Ltd.	CMPP	Max. 0.22μF, Min. 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Photo Coupler (U902)	Sharp	PC123	Di=0.7mm, ext. cr ≥8.0mm, min.3000Vac, 110°C	DIN EN 60747-5-5, UL1577	VDE, UL, Semko, Nemko, Fimko
(Alternative)	Vishay Semiconductor	TCET1103	Di=0.6mm, ext. cr=8.4mm, min.3000Vac, 100°C	DIN EN 60747-5-5, UL1577	VDE, UL, Semko, Fimko
(Alternative)	Everlight Electronics Co., Ltd.	EL817, EL817M	Di=0.5mm, ext. cr=7.7mm, min.3000Vac, 100°C	DIN EN 60747-5-5, UL1577	VDE, UL, Semko, Nemko, Fimko
(Alternative)	Everlight Electronics Co., Ltd.	EL1013	Di=0.4mm, ext. cr=8.0mm, min.3000Vac, 100°C	DIN EN 60747-5-5, UL1577	VDE, UL, Semko
(Alternative)	Lite-on	LTV-817	Di=0.4mm, ext. cr ≥7.0mm, min.3000Vac, 100°C	DIN EN 60747-5-5, UL1577	VDE, UL
(Alternative)	Renesas	PS2561-1 PS2561L-1 PS2561L1-1 PS2561L2-1 PS2561DL1-1	Di=0.4mm, ext. cr=8.0mm, min.3000Vac, 100°C	DIN EN 60747-5-5, UL1577	VDE, UL, Nemko, Fimko
(Alternative)	TOSHIBA	TLP781F TLP781	Di=0.4mm, ext. cr=8.0mm, min.3000Vac, 100°C	DIN EN 60747-5-5, UL1577	VDE, UL, Semko, Fimko
(Alternative)	TOSHIBA	TLP421F	Di=0.4mm, ext. cr=8.0mm, min.3000Vac, 100°C	DIN EN 60747-5-5, UL1577	VDE, UL, Semko, Fimko
Thermistor (NR901)	JIANGSU XINGSHUN ELECTRONICS CO.,LTD	8D2-14	Min. 5Ω at 25°C, min. 2A	--	--

IEC 60950-1					
Clause	Requirement + Test		Result - Remark		Verdict
(Alternative)	Interchangeable	Interchangeable	Min. 5Ω at 25°C, min. 2A	--	--
Bleeder Resistor (R907, R908, R909)	FENGHUA	RVS-06	Max. 1MΩ, min. 1/4W	--	--
(Alternative)	Interchangeable	Interchangeable	Max. 1MΩ, min. 1/4W	--	--
Current sensor resistor (R931)	CAIZHI	MOF2WS	Min. 0.825Ω, 2W	--	--
(Alternative)	Interchangeable	Interchangeable	Min. 0.825Ω, 2W	--	--
Bridging Diode (BD901)	LITEON	KBP208G-C	Min.500V, min.2A	--	--
(Alternative)	Interchangeable	Interchangeable	Min.500V, min.2A	--	--
Ripple Capacitor (C907)	KINGNICH	PW2W470MLT1236DLRV	50-150μF, max. 450V, 105°C	--	--
(Alternative)	Interchangeable	Interchangeable	50-150μF, max. 450V, 105°C	--	--
Transistor (Q901)	AUK	SMK0465F	Min.500V, min.2A	--	--
(Alternative)	Interchangeable	Interchangeable	Min.500V, min.2A	--	--
Line Choke (L901) (Optional)	ASET	73G-174-192-X	105°C	--	--
(Alternative)	DADON	73G-174-192-H	105°C	--	--
(Alternative)	TAICHANG	73G-174-192-S	105°C	--	--
(Alternative)	FRONTIER	73G-174-192-F	105°C	--	--
(Alternative)	LI TAI	73G-174-192-L	105°C	--	--
(Alternative)	YUVA	73G-174-192-N	105°C	--	--
(Alternative)	DARFON	73G-174-192-DN	105°C	--	--
Transformer (T902) (Alt.)	Channelon	380GL19P535H	Class 105 material (A)	Applicable parts of IEC 60950-1 and according to IEC 60085	Accepted by TÜV Rheinland
- Bobbin	Sumitomo	PM-9820	V-0, Phenolic, 150°C	UL 94	UL
- Triple insulation wire	Cosmolink	TIW-M	130°C	IEC/EN 60950-1, VDE0805 Teil1, UL 2353	UL, VDE

IEC 60950-1					
Clause	Requirement + Test		Result - Remark		Verdict
- Insulation tape	SYMBIO INC	No.35660Y*(%)	130°C	UL510	UL
(alternative)	JINGJIANG YAHUA	No.CT(c)	130°C	UL510	UL
Transformer (T902) (Alt.)	YUVA	380GL19P535N	Class 105 material (A)	Applicable parts of IEC 60950-1 and according to IEC 60085	Accepted by TÜV Rheinland
- Bobbin	Sumitomo	PM-9820	V-0, Phenolic, 150°C	UL 94	UL
- Triple insulation wire	Cosmolink	TIW-M	130°C	IEC/EN 60950-1, VDE0805 Teil1, UL 2353	UL, VDE
- Insulation tape	SYMBIO INC	No.35660Y*(%)	130°C	UL510	UL
(alternative)	JINGJIANG YAHUA	No.CT(c)	130°C	UL510	UL
Transformer (T902) (Alt.)	TPV	S80GL19P535V	Class 105 material (A)	Applicable parts of IEC 60950-1 and according to IEC 60085	Accepted by TÜV Rheinland
- Bobbin	Sumitomo	PM-9820	V-0, Phenolic, 150°C	UL 94	UL
- Triple insulation wire	Furukawa	TEX-E	130°C	IEC/EN 60950-1, VDE0805 Teil1, UL 2353	UL, VDE
- Insulation tape	SYMBIO INC	No.35660Y*(%)	130°C	UL510	UL
(alternative)	JINGJIANG YAHUA	No.CT(c)	130°C	UL510	UL
Transformer (T902) (Alt.)	LFDJ	380GL19P535J	Class 105 material (A)	Applicable parts of IEC 60950-1 and according to IEC 60085	Accepted by TÜV Rheinland
- Bobbin	Sumitomo	PM-9820	V-0, Phenolic, 150°C	UL 94	UL
- Triple insulation wire	Cosmolink	TIW-M	130°C	IEC/EN 60950-1, VDE0805 Teil1, UL 2353	UL, VDE
- Insulation tape	JINGJIANG YAHUA	No.CT(c)	130°C	UL510	UL
Transformer (T902) (Alt.)	PHOENIX	380GL19P535P	Class 105 material (A)	Applicable parts of IEC 60950-1 and according to IEC 60085	Accepted by TÜV Rheinland

IEC 60950-1					
Clause	Requirement + Test			Result - Remark	Verdict
- Bobbin	Sumitomo	PM-9820	V-0, Phenolic, 150°C	UL 94	UL
- Triple insulation wire	SUZHOU YUSHENG ELECTRONIC CO LTD	TIW-B+@	130°C	IEC/EN 60950-1, VDE0805 Teil1, UL 2353	UL, VDE
- Insulation tape	JINGJIANG YAHUA	No.CT*(c)(g)	130°C	UL510	UL
Switching mode power supply board: 715G7610 by TPV					
AC-Inlet (CN9901)	Solteam	ST-01	10A, 250Vac	IEC/ EN 60320-1 UL60320-1	VDE, UL
(Alternative)	Zhang Jia Gang-Hua Jie	SA-4S, SA-4S-1, SA-4D	10A, 250Vac	IEC/ EN 60320-1 UL60320-1	VDE, UL
(Alternative)	Rong Feng	SS-120, SS-7B	10A, 250Vac	IEC/ EN 60320-1 UL60320-1	VDE, UL
(Alternative)	Inalways	0707-1, 0711-2, 0714	10A, 250Vac	IEC/ EN 60320-1 UL60320-1	VDE, UL
(Alternative)	DELIKANG	CDJ-3, CDJ-3-1	10A, 250Vac	IEC/ EN 60320-1 UL60320-1	VDE, UL
(Alternative)	TECX	TU-301 series	10A, 250Vac	IEC/ EN 60320-1 UL60320-1	VDE, UL
(Alternative)	Yueqing Hongchang	DB-14	10A, 250Vac	IEC/ EN 60320-1 UL60320-1	VDE, UL
Primary Switch (SW901) (Optional)	Rong Feng Industrial Co., Ltd.	RF-1003	VDE: 10(4)A, 250Vac UL: 10A, 250Vac	IEC/EN 61058-1, UL 1054	VDE, UL
(Alternative)	Solteam Electronics Co Ltd	MR-21 series	ENEC: 6A, 250Vac UL:10A, 125/250Vac	IEC/EN 61058-1, UL 1054	ENEC, UL
(Alternative)	Solteam Electronics Co Ltd	MR-21S	ENEC: 6A, 250Vac UL:10A, 125/250Vac	IEC/EN 61058-1, UL 1054	ENEC, UL
(Alternative)	Solteam Electronics Co Ltd	OR-L series, OR-P series	ENEC: 6A, 250Vac UL: 10A/125Vac, 6A/250Vac	IEC/EN 61058-1, UL 1054	ENEC, UL
(Alternative)	Solteam Electronics Co Ltd	MR-22 series	ENEC: 12(4)A, 250Vac UL: 12A, 125/250Vac	IEC/EN 61058-1, UL 1054	ENEC, UL

IEC 60950-1					
Clause	Requirement + Test		Result - Remark		Verdict
(Alternative)	Chily	3024 series	VDE:16(4)A, 250Vac UL: 15A,125/250Vac	IEC/EN 61058-1, UL 1054	VDE, UL
(Alternative)	Ningbo Yinzhou Lihe Switch Factory	RL3-4	VDE: 10(4), 250Vac UL: 16A, 125Vac	IEC/EN 61058-1, UL 1054	VDE, UL
Fuse (F9901 in primary)	Littelfuse, Inc. Wickmann	382-series, 392	T5AL, 250Vac	IEC/ EN 60127-1 IEC/ EN 60127-3 UL 248-1	VDE, UL
(Alternative)	Littelfuse, Inc.	TE5 400	T5AL, 250Vac	IEC/ EN 60127-1 IEC/ EN 60127-3	VDE
(Alternative)	Conquer	MET, MST, PTU	T5AL, 250Vac	IEC/ EN 60127-1 IEC/ EN 60127-3 UL 248-1	VDE, UL
(Alternative)	Cooper Bussmann	SR-5, SS-5	T5AL, 250Vac	IEC/ EN 60127-1 IEC/ EN 60127-3 UL 248-1	VDE, UL
(Alternative)	Ever Island Electric Co., Ltd. & Walter Electric	2000, 2010 series	T5AL, 250Vac	IEC/ EN 60127-1 IEC/ EN 60127-3 UL 248-1	VDE, UL
Fuse (F901 in secondary)	Littelfuse, Inc. Wickmann	382-series, 392	T4AL, 250Vac	IEC/ EN 60127-1 IEC/ EN 60127-3 UL 248-1	VDE, UL
(Alternative)	Littelfuse, Inc.	TE5 400	T4AL, 250Vac	IEC/ EN 60127-1 IEC/ EN 60127-3	VDE
(Alternative)	Conquer	MET, MST, PTU	T4AL, 250Vac	IEC/ EN 60127-1 IEC/ EN 60127-3 UL 248-1	VDE, UL
(Alternative)	Cooper Bussmann	SR-5, SS-5	T4AL, 250Vac	IEC/ EN 60127-1 IEC/ EN 60127-3 UL 248-1	VDE, UL
(Alternative)	Ever Island Electric Co., Ltd. & Walter Electric	2000, 2010 series	T4AL, 250Vac	IEC/ EN 60127-1 IEC/ EN 60127-3 UL 248-1	VDE, UL
Y- Capacitor (C9903, C9904) Y1 or Y2 type (optional)	Walsin	AC, AH	Max. 680pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
(Alternative)	TDK	CS, CD	Max. 680pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
(Alternative)	Murata	KH, KX	Max. 680pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL

IEC 60950-1					
Clause	Requirement + Test		Result - Remark		Verdict
(Alternative)	JYA-NAY	JY, JN	Max. 680pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
(Alternative)	Hongming	F	Max. 680pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
(Alternative)	Wansheng	CT7	Max. 680pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
(Alternative)	Haohua	CT7	Max. 680pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
(Alternative)	Samwha	SD	Max. 680pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
(Alternative)	Matsushita	NS-A, NS-B	Max. 680pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
(Alternative)	Success	SB, SE	Max. 680pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
(Alternative)	Yinan Don's	CT81	Max. 680pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Y- Capacitor (C9902) Y1 type (optional)	Walsin	AH	Max. 2200pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
(Alternative)	TDK	CD	Max. 2200pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
(Alternative)	Murata	KX	Max. 2200pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
(Alternative)	JYA-NAY	JN	Max. 2200pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
(Alternative)	Hongming	F	Max. 2200pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
(Alternative)	Wansheng	CT7	Max. 2200pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
(Alternative)	Haohua	CT7	Max. 2200pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL

IEC 60950-1					
Clause	Requirement + Test		Result - Remark		Verdict
(Alternative)	Samwha	SD	Max. 2200pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
(Alternative)	Matsushita	NS-A	Max. 2200pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
(Alternative)	Success	SB, SE	Max. 2200pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
(Alternative)	Yinan Don's	CT81	Max. 2200pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
X-Capacitor (X1 or X2 type) (C9901) (optional)	Ultra Tech Xiphi	HQX	Max. 0.33μF, Min. 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
(Alternative)	Faratronic	MKP62	Max. 0.33μF, Min. 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
(Alternative)	Hua Jung	MKP	Max. 0.33μF, Min. 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	ENEC(Semko), UL
(Alternative)	Nanjing Tengen Rongguangda	MKP	Max. 0.33μF, Min. 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
(Alternative)	Europtronic	MPX, MPX2	Max. 0.33μF, Min. 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
(Alternative)	Liow Gu	GS-L	Max. 0.33μF, Min. 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
(Alternative)	Arcotronics (KEMET)	R.46	Max. 0.33μF, Min. 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	ENEC(IMQ), UL
(Alternative)	EPCOS	B3292#	Max. 0.33μF, Min. 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
(Alternative)	ZhuHai Sung Ho Electronics Co., Ltd.	CMPP	Max. 0.33μF, Min. 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Photo Coupler (U902)	Sharp	PC123	Di=0.7mm, ext. cr ≥8.0mm, min.3000Vac, 110°C	DIN EN 60747-5-5, UL1577	VDE, UL, Semko, Nemko, Fimko

IEC 60950-1					
Clause	Requirement + Test		Result - Remark		Verdict
(Alternative)	Vishay Semiconductor	TCET1103	Di=0.6mm, ext. cr=8.4mm, min.3000Vac, 100°C	DIN EN 60747-5-5, UL1577	VDE, UL, Semko, Fimko
(Alternative)	Everlight Electronics Co., Ltd.	EL817, EL817M	Di=0.5mm, ext. cr=7.7mm, min.3000Vac, 100°C	DIN EN 60747-5-5, UL1577	VDE, UL, Semko, Nemko, Fimko
(Alternative)	Everlight Electronics Co., Ltd.	EL1013	Di=0.4mm, ext. cr=8.0mm, min.3000Vac, 100°C	DIN EN 60747-5-5, UL1577	VDE, UL, Semko
(Alternative)	Lite-on	LTV-817	Di=0.4mm, ext. cr ≥7.0mm, min.3000Vac, 100°C	DIN EN 60747-5-5, UL1577	VDE, UL
(Alternative)	Renesas	PS2561-1 PS2561L-1 PS2561L1-1 PS2561L2-1 PS2561DL1-1	Di=0.4mm, ext. cr=8.0mm, min.3000Vac, 100°C	DIN EN 60747-5-5, UL1577	VDE, UL, Nemko, Fimko
(Alternative)	TOSHIBA	TLP781F TLP781	Di=0.4mm, ext. cr=8.0mm, min.3000Vac, 100°C	DIN EN 60747-5-5, UL1577	VDE, UL, Semko, Fimko
(Alternative)	TOSHIBA	TLP421F	Di=0.4mm, ext. cr=8.0mm, min.3000Vac, 100°C	DIN EN 60747-5-5, UL1577	VDE, UL, Semko, Fimko
Thermistor (NR9901)	JIANGSU XINGSHUN ELECTRONICS CO.,LTD	8D2-14	Min. 5Ω at 25°C, min. 2A	--	--
(Alternative)	Interchangeable	Interchangeable	Min. 5Ω at 25°C, min. 2A	--	--
Bleeder Resistor (R9901, R9902, R9903)	FENGHUA	RVS-06	Max. 1MΩ, min. 1/4W	--	--
(Alternative)	Interchangeable	Interchangeable	Max. 1MΩ, min. 1/4W	--	--
Current sensor resistor (R916)	Tzaiyuan	MOF2WS0R43JT 52	Min. 0.39Ω, 2W	--	--
(Alternative)	Interchangeable	Interchangeable	Min. 0.39Ω, 2W	--	--
Bridging Diode (BD9901)	LITEON	KBP208G-C	Min.500V, min.2A	--	--

IEC 60950-1					
Clause	Requirement + Test			Result - Remark	Verdict
(Alternative)	Interchangeable	Interchangeable	Min.500V, min.2A	--	--
Ripple Capacitor (C901, C902)	RUBYCON	470PKZ002S	47-150 μ F, max. 450V, 105°C	--	--
(Alternative)	Interchangeable	Interchangeable	47-150 μ F, max. 450V, 105°C	--	--
Transistor (Q901)	AUK	SMK0465F	Min.500V, min.2A	--	--
(Alternative)	Interchangeable	Interchangeable	Min.500V, min.2A	--	--
Line Choke (L9902) (Optional)	JIANGSU CHANNELON	373G0174563H	105°C	--	--
(Alternative)	LIANFENG DONGJJIN	373G0174563J	105°C	--	--
(Alternative)	ASET	373G0174563X	105°C	--	--
(Alternative)	LIANZHEN ELECTRONICS	373G0174563Z	105°C	--	--
Transformer (T901)	PHOENIX	380GL32P547P	Class B	Applicable parts of IEC 60950-1 and according to IEC 60085	Accepted by TÜV Rheinland
- Bobbin	SUMITOMO BAKELITE CO.,LTD	PM-9820	Phenolic, V-0, 150°C	UL 94	UL
- Triple insulated wire	SUZHOU YUSHENG ELECTRONIC CO LTD	TIW-B	130°C, Class B	IEC 60950-1 UL 60950-1	VDE, UL
- Insulation tape	JINGJIANG YAHUA	No.CT(c)	130°C	UL510	UL
Transformer (T901) (Alt.)	LIANFENG DONGJIN	380GL32P547J	Class B	Applicable parts of IEC 60950-1 and according to IEC 60085	Accepted by TÜV Rheinland
- Bobbin	SUMITOMO BAKELITE CO.,LTD	PM-9820	Phenolic, V-0, 150°C	UL 94	UL
- Triple insulated wire	SUZHOU YUSHENG ELECTRONIC CO LTD	TIW-B	130°C, Class B	IEC 60950-1 UL 60950-1	VDE, UL

IEC 60950-1					
Clause	Requirement + Test			Result - Remark	Verdict
- Insulation tape	JINGJIANG YAHUA	No.CT(c)	130°C	UL510	UL
Supplementary information: ¹⁾ Provided evidence ensures the agreed level of compliance. See OD-CB2039. 'Di' means distance through insulation, 'int.' Means internal distance of creepage and 'ext.' Means external distance of creepage. - All sources of transformer were checked with same construction.					

1.5.1	TABLE: Opto Electronic Devices	P
Manufacturer: See appended table 1.5.1 (List of critical components)		
Type: See appended table 1.5.1 (List of critical components)		
Separately tested: Tested with appliance		
Bridging insulation: Reinforced insulation.		
External creepage distance.....: See appended table 1.5.1 (List of critical components)		
Internal creepage distance.....: Approved source used ¹ .		
Distance through insulation: See appended table 1.5.1 (List of critical components)		
Tested under the following conditions		
Input: Tested with appliance		
Output.....: Tested with appliance		
Supplementary information: All sources of photo coupler were in compliance with EN60747-5-5 and CTL DSH 759 decision.		

1.6.2	TABLE: Electrical data (in normal conditions)					P
U (V)	I (A)	Irated (A)	P (W)	Fuse #	Ifuse (A)	Condition/status
Test with power board 715G7300, main board 715G9496						
VGA mode						
90/50	0.30	--	16.1	F901	0.30	Maximum normal load ¹ .
90/60	0.30	--	16.2	F901	0.30	Maximum normal load ¹ .
100/50	0.27	1.5	16.0	F901	0.27	Maximum normal load ¹ .
100/60	0.28	1.5	16.2	F901	0.28	Maximum normal load ¹ .
240/50	0.15	1.5	15.6	F901	0.15	Maximum normal load ¹ .
240/60	0.15	1.5	15.8	F901	0.15	Maximum normal load ¹ .

IEC 60950-1						
Clause	Requirement + Test			Result - Remark		Verdict
264/50	0.15	--	16.0	F901	0.15	Maximum normal load ^{1.}
264/60	0.14	--	15.8	F901	0.14	Maximum normal load ^{1.}
HDMI mode						
90/50	0.34	--	18.8	F901	0.34	Maximum normal load ^{1.}
90/60	0.34	--	18.8	F901	0.34	Maximum normal load ^{1.}
100/50	0.31	1.5	18.6	F901	0.31	Maximum normal load ^{1.}
100/60	0.32	1.5	18.5	F901	0.32	Maximum normal load ^{1.}
240/50	0.18	1.5	18.5	F901	0.18	Maximum normal load ^{1.}
240/60	0.18	1.5	18.5	F901	0.18	Maximum normal load ^{1.}
264/50	0.17	--	18.3	F901	0.17	Maximum normal load ^{1.}
264/60	0.17	--	18.5	F901	0.17	Maximum normal load ^{1.}
DP mode						
90/50	0.34	--	18.1	F901	0.34	Maximum normal load ^{1.}
90/60	0.34	--	18.2	F901	0.34	Maximum normal load ^{1.}
100/50	0.31	1.5	18.4	F901	0.31	Maximum normal load ^{1.}
100/60	0.31	1.5	18.5	F901	0.31	Maximum normal load ^{1.}
240/50	0.18	1.5	18.3	F901	0.18	Maximum normal load ^{1.}
240/60	0.17	1.5	18.3	F901	0.17	Maximum normal load ^{1.}
264/50	0.16	--	18.3	F901	0.16	Maximum normal load ^{1.}
264/60	0.16	--	18.2	F901	0.16	Maximum normal load ^{1.}
Test with power board 715G7610, main board 715G9483						
VGA mode						
90/50	0.87	--	48.2	F9901	0.87	Maximum normal load ^{2.}
90/60	0.87	--	48.1	F9901	0.87	Maximum normal load ^{2.}
100/50	0.79	1.5	48.0	F9901	0.79	Maximum normal load ^{2.}
100/60	0.80	1.5	48.1	F9901	0.80	Maximum normal load ^{2.}
240/50	0.46	1.5	47.5	F9901	0.46	Maximum normal load ^{2.}
240/60	0.46	1.5	47.6	F9901	0.46	Maximum normal load ^{2.}
264/50	0.42	--	47.4	F9901	0.42	Maximum normal load ^{2.}
264/60	0.42	--	47.3	F9901	0.42	Maximum normal load ^{2.}
DVI mode						
90/50	0.82	--	45.4	F9901	0.82	Maximum normal load ^{2.}
90/60	0.83	--	45.4	F9901	0.83	Maximum normal load ^{2.}

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Clause	Requirement + Test				Result - Remark	Verdict
100/50	0.74	1.5	45.2	F9901	0.74	Maximum normal load ² .
100/60	0.75	1.5	45.0	F9901	0.75	Maximum normal load ² .
240/50	0.42	1.5	44.4	F9901	0.42	Maximum normal load ² .
240/60	0.41	1.5	44.2	F9901	0.41	Maximum normal load ² .
264/50	0.39	--	44.1	F9901	0.39	Maximum normal load ² .
264/60	0.38	--	44.4	F9901	0.38	Maximum normal load ² .
HDMI mode						
90/50	0.86	--	47.8	F9901	0.86	Maximum normal load ² .
90/60	0.87	--	47.7	F9901	0.87	Maximum normal load ² .
100/50	0.78	1.5	47.2	F9901	0.78	Maximum normal load ² .
100/60	0.80	1.5	47.1	F9901	0.80	Maximum normal load ² .
240/50	0.46	1.5	46.2	F9901	0.46	Maximum normal load ² .
240/60	0.45	1.5	45.9	F9901	0.45	Maximum normal load ² .
264/50	0.42	--	46.6	F9901	0.42	Maximum normal load ² .
264/60	0.42	--	46.5	F9901	0.42	Maximum normal load ² .
DP mode						
90/50	0.85	--	47.1	F9901	0.85	Maximum normal load ² .
90/60	0.86	--	47.0	F9901	0.86	Maximum normal load ² .
100/50	0.78	1.5	46.2	F9901	0.78	Maximum normal load ² .
100/60	0.79	1.5	46.5	F9901	0.79	Maximum normal load ² .
240/50	0.45	1.5	46.2	F9901	0.45	Maximum normal load ² .
240/60	0.45	1.5	45.3	F9901	0.45	Maximum normal load ² .
264/50	0.42	--	45.4	F9901	0.42	Maximum normal load ² .
264/60	0.42	--	45.7	F9901	0.42	Maximum normal load ² .
Supplementary information: - Maximum normal load: maximum brightness, maximum contrast, full white screen; speakers (two sets, each max. 4Ω, 2.5W) were loaded with 1KHz sinusoidal signal and turned to maximum volume. - Maximum normal load: maximum brightness, maximum contrast, full white screen; speakers (two sets, each max. 4Ω, 2.5W) were loaded with 1KHz sinusoidal signal and turned to maximum volume, each USB 3.0 loaded 0.9A and one USB fast charging port loaded 1.5A. - Panel H*215***-*** (BOE) was chosen for the test, due to it has the highest power consumption specified in panel spec among all the panels.						

IEC 60950-1					
Clause	Requirement + Test			Result - Remark	Verdict
2.1.1.5 c) 1)	TABLE: max. V, A, VA test				P
Voltage (rated) (V)		Current (rated) (A)	Voltage (max.) (V)	Current (max.) (A)	VA (max.) (VA)
Tested with power board 715G7610					
+19V		--	19	4.5	84
Supplementary information: Test voltage is 264Vac, 60Hz.					

2.2	TABLE: evaluation of voltage limiting components in SELV circuits			P
Component (measured between)		max. voltage (V) (normal operation)		Voltage Limiting Components
		V peak	V d.c.	
Tested with power board 715G7610				
T901 pin 6-8		52.2	--	--
After R907		69.7	--	--
After D901/C904		--	19.4	D901/C907
After L801		--	20.3	--
Output of converter circuit for LED backlight		--	38.1	--
Fault test performed on voltage limiting components		Voltage measured (V) in SELV circuits (V peak or V d.c.)		
D901 (short)		0 (+19V output)		
L801 (short)		20.3 (convertor output)		
Supplementary information: Input Voltage is 264Vac, 60Hz.				

2.5	TABLE: Limited power sources					P
Circuit output tested: see below.						
Note: Measured Uoc (V) with all load circuits disconnected:						
Components	Test condition (Single fault)	Uoc (V)	I _{sc} (A)		VA	
			Meas.	Limit	Meas.	Limit
Location: +19V output of power board 715G7610						
Normal condition	--	19.0	4.5	8	84	100
U902 pin1-2	s-c	0*	0*	8	0*	100
U902 pin3-4	s-c	0*	0*	8	0*	100
R916	s-c	0*	0*	8	0*	100
R928	s-c	0*	0*	8	0*	100

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict

Supplementary information:

1. Input Voltage is 264Vac, 60Hz. s-c=short circuit, o-c=open circuit.
2. * indicates unit shut down.

2.10.2	Table: working voltage measurement			P
Location		RMS voltage (V)	Peak voltage (V)	Comments
Tested with power board 715G7610				
T901 pin 1-6		170	362	
T901 pin 1-8		169	344	
T901 pin 2-6		169	350	
T901 pin 2-8		170	406	
T901 pin 3-6		256	463	
T901 pin 3-8		256	494	Max. Vrms & Vpeak
T901 pin 5-6		255	419	
T901 pin 5-8		252	350	
U902 pin 1-3		181	362	
U902 pin 1-4		185	362	
U902 pin 2-3		182	362	
U902 pin 2-4		183	362	
C9902		172	410	
Supplementary information: Input Voltage is 264Vac, 60Hz.				

2.10.3 and 2.10.4	TABLE: Clearance and creepage distance measurements						P
Clearance (cl) and creepage distance (cr) at/of/between:	U peak (V)	U r.m.s. (V)	Required cl (mm)	cl (mm)	Required cr (mm)	cr (mm)	
Test with power board 715G7300							
Functional:							
Under fuse (F901)	420	250	2.3	3.0	2.5	3.0	
Before fuse (between L-N)	420	250	2.3	4.3	2.5	4.3	
Basic/supplementary:							
Line-GND	420	250	3.0	3.1	3.0	3.1	
Neutral-GND	420	250	3.0	3.1	3.0	3.1	
Under C902	420	250	3.0	3.3	3.0	3.3	
Under C903	420	250	3.0	3.3	3.0	3.3	

IEC 60950-1						
Clause	Requirement + Test			Result - Remark		Verdict
Primary component C907 to metal enclosure A/B/C	420	250	3.0	4.5	3.0	4.5
Primary heatsink HS1 to metal enclosure type A	420	250	3.0	>10 ³	3.0	>10 ³
Primary heatsink HS1 to metal enclosure type B/C	420	250	3.0	4.0	3.0	4.0
T902 core to metal enclosure type A	550	250	3.3	>10 ³	3.3	>10 ³
T902 core to metal enclosure type B/C	550	250	3.3	11.5	3.3	11.5
Reinforced:						
Under T902	550	250	6.6	8.2	6.6	8.2
Under C913	420	250	6.0	7.5	6.0	7.5
Under U902	420	250	6.0	7.8	6.0	7.8
Secondary Jumper J903 to core of T902	550	250	6.6	9.4	6.6	9.4
Supplementary information:						
1. Core of main transformer T902 consider as primary. 2. One mylar sheet is fixed between primary component trace and panel plate to fulfill the requirement for reinforced insulation. See table 5.2 for the electric strength test for mylar. 3. One mylar sheet is fixed between primary heatsink HS1, T902 and metal enclosure type A to fulfill the requirement for basic insulation. See table 5.2 for the electric strength test for mylar. 4. Glued component: C907. 5. Considered altitude correction factor 1.48 for clearances for an altitude of 5000m. 6. For clearance and creepage that did not describe above are far larger than limit above.						

2.10.3 and 2.10.4	TABLE: Clearance and creepage distance measurements						P
Clearance (cl) and creepage distance (cr) at/of/between:	U peak (V)	U r.m.s. (V)	Required cl (mm)	cl (mm)	Required cr (mm)	cr (mm)	
Test with power board 715G7610							
Functional:							
Under fuse (F901)	420	250	2.3	2.7	2.5	2.7	
Before fuse (between L-N)	420	250	2.3	3.4	2.5	3.4	
Basic/supplementary:							
Line-GND	420	250	3.0	3.1	3.0	3.1	
Neutral-GND	420	250	3.0	3.1	3.0	3.1	
Under C9903	420	250	3.0	3.4	3.0	3.4	
Under C9904	420	250	3.0	3.4	3.0	3.4	

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Clause	Requirement + Test			Result - Remark		Verdict
T901 core to metal enclosure type D	494	256	3.3	3.5	3.3	3.5
Primary heatsink HS1 to metal enclosure type D	420	250	3.0	>10 ³	3.0	>10 ³
Reinforced:						
Under T901	494	256	6.6	11.0	6.6	11.0
Under C9902	420	250	6.0	7.5	6.0	7.5
Under U902	420	250	6.0	7.8	6.0	7.8
Secondary heatsink HS902 to core of T901	494	256	6.6	9.2	6.6	9.2
Primary conductor of power switch to user accessible area	420	250	6.0	>10	6.0	>10
Supplementary information: - Core of main transformer T901 consider as primary. - One mylar sheet is fixed between primary component trace and panel plate to fulfill the requirement for reinforced insulation. See table 5.2 for the electric strength test for mylar. - One mylar sheet is fixed between primary heatsink HS901 and metal enclosure type D to fulfill the requirement for basic insulation. See table 5.2 for the electric strength test for mylar. - Glued component: C901 and C902. - Considered altitude correction factor 1.48 for clearances for an altitude of 5000m. - For clearance and creepage that did not describe above are far larger than limit above.						

2.10.5	TABLE: Distance through insulation measurements					P
Distance through insulation (DTI) at/of:		U peak (V)	U rms (V)	Test voltage (V)	Required DTI (mm)	DTI (mm)
Mylar sheet between power board component side and metal enclosure (basic insulation)		420	250	1834	--	min. 0.4
Mylar sheet between power board trace side and panel metal plate (reinforced insulation)		420	250	3000	0.4	min. 0.4
Heat shrinkable tube used on metal pillar near C907 (basic insulation)		420	250	1834	--	min. 0.4
Photo coupler (reinforced insulation)		420	250	3000	0.4	1.
Supplementary information: For approved component source see appended table 1.5.1.						

IEC 60950-1							
Clause	Requirement + Test			Result - Remark			Verdict
4.5	TABLE: Thermal requirements						P
	Supply voltage (V)	90V/ 60Hz	264V/ 60Hz	90V/ 60Hz	264V/ 60Hz	--	—
	Ambient T _{min} (°C)	--	--	--	--	--	—
	Ambient T _{max} (°C)	--	--	--	--	--	—
Maximum measured temperature T of part/at.....:		T (°C)					Allowed T _{max} (°C)
		Horizontal		Vertical			
Test with power board 715G9546, main board 715G9494, HDMI mode							
AC Inlet CN901 (on power board)		26.9	26.4	24.9	22.2	--	43.8
Switch SW901 (on power board)		25.9	25.7	19.2	18.7	--	53.8
C902 body (on power board)		27.6	27.6	26.9	22.7	--	58.8
PCB near NR9901 (on power board)		38.7	31.7	33.8	26.3	--	78.8
C901 body (on power board)		35.5	31.0	30.9	25.6	--	58.8
C913 body (on power board)		36.0	33.6	31.7	27.2	--	58.8
L9902 coil (on power board)		40.5	32.7	30.7	26.2	--	78.8
PCB near BD901 (on power board)		39.6	34.8	30.7	28.8	--	78.8
C907 body (on power board)		34.5	32.2	32.9	28.4	--	78.8
Transformer T902 coil (on power board)		58.5	61.6	40.4	47.3	--	88.8
Transformer T902 core (on power board)		49.3	51.3	39.6	42.2	--	88.8
U902 body (on power board)		37.0	37.1	33.9	30.1	--	73.8
PCB near Q901 (on power board)		42.0	41.8	36.8	36.1	--	78.8
PCB near D901 (on power board)		51.1	52.8	39.5	39.9	--	78.8
PCB near L801 (on power board)		49.6	49.4	44.1	42.1	--	78.8
PCB near U801 (on power board)		43.5	42.3	38.2	35.7	--	78.8
PCB near U401 body (on main board)		37.9	38.2	38.2	38.3	--	78.8
Plastic enclosure inside near Transformer		23.3	23.7	20.9	19.0	--	--
Plastic enclosure outside		23.4	23.4	18.9	16.0	--	68.8
Panel surface		25.9	26.1	21.2	20.4	--	68.8
metal enclosure		26.6	26.8	20.9	20.9	--	43.8
Ambient		19.9	20.0	13.8	13.8	--	--
Test with power board 715G7300, main board 715G9496							

IEC 60950-1						
Clause	Requirement + Test			Result - Remark		Verdict
AC Inlet CN901 (on power board)	23.0	21.0	20.9	19.8	--	43.8
C902 body (on power board)	23.8	22.4	22.7	25.1	--	58.8
PCB near NR9901 (on power board)	32.3	25.5	23.9	30.1	--	78.8
C901 body (on power board)	28.4	25.1	22.3	24.9	--	58.8
C913 body (on power board)	34.2	31.1	28.4	29.4	--	58.8
L9902 coil (on power board)	35.6	27.7	25.4	33.7	--	78.8
PCB near BD901 (on power board)	37.4	30.5	29.5	36.1	--	78.8
C907 body (on power board)	30.5	27.6	27.5	32.1	--	78.8
Transformer T902 coil (on power board)	48.8	51.2	47.0	43.4	--	88.8
Transformer T902 core (on power board)	45.8	48.7	46.0	42.7	--	88.8
U902 body (on power board)	38.5	39.0	40.4	39.5	--	73.8
PCB near Q901 (on power board)	36.8	36.0	36.7	38.1	--	78.8
PCB near D901 (on power board)	45.7	49.4	45.8	42.4	--	78.8
PCB near L801 (on power board)	45.3	44.8	35.4	35.4	--	78.8
PCB near U801 (on power board)	38.6	37.9	37.2	36.6	--	78.8
PCB near U401 body (on main board)	36.5	36.2	35.5	36.0	--	78.8
Plastic enclosure inside near Transformer	20.9	20.1	17.9	18.7	--	--
Plastic enclosure outside	16.8	17.2	15.3	15.8	--	68.8
Panel surface	21.1	20.0	18.6	18.8	--	68.8
Metal enclosure	23.8	23.5	21.3	20.9	--	43.8
Ambient	14.7	13.9	13.8	14.2	--	--
Test with power board 715G7610, main board 715G9483						
AC inlet CN901 (on power board)	27.6	25.8	29.3	27.1	--	43.3
Y-cap C9903 (on power board)	30.3	27.7	32.4	29.1	--	58.3
Y-cap C9904 (on power board)	31.2	35.6	29.9	27.1	--	58.3
X-cap C9901 (on power board)	43.0	28.9	38.7	33.3	--	58.3
PCB near NR9901 (on power board)	57.8	42.9	47.8	37.8	--	78.3
L9901 coil (on power board)	50.7	36.2	46.0	34.4	--	78.3
PCB near BD9901 (on power board)	51.1	39.7	43.1	36.7	--	78.3
E-cap C901 (on power board)	38.4	32.7	45.1	36.5	--	78.3
PCB near Q901 (on power board)	49.2	47.0	53.5	52.8	--	78.3
Y-cap C9902 (on power board)	46.7	36.3	33.5	32.7	--	58.3
Opto-coupler U902 body (on power board)	44.6	46.5	40.2	41.6	--	73.3

IEC 60950-1						
Clause	Requirement + Test			Result - Remark		Verdict

T901 coil (on power board)	63.5	68.4	59.4	65.4	--	88.3
T901 core (on power board)	59.9	63.9	55.9	60.1	--	88.3
PCB near D901 (on power board)	57.5	60.7	51.8	55.9	--	78.3
PCB near main IC (on main board)	34.6	36.1	42.5	42.7	--	78.3
Plastic enclosure inside near T901	23.0	23.4	25.7	25.1	--	--
Plastic enclosure outside near T901	20.3	21.1	19.8	20.5	--	68.3
Panel surface	21.8	22.0	21.6	22.2	--	68.3
Metal enclosure	29.2	29.7	29.8	30.3	--	43.3
Ambient	13.3	13.8	13.8	13.5	--	--

Supplementary information:

Temperature T of winding:	t ₁ (°C)	R ₁ (Ω)	t ₂ (°C)	R ₂ (Ω)	T (°C)	Allowed T _{max} (°C)	Insulation class

Supplementary information:

- The temperatures were measured under the worst case normal mode defined in 1.2.2.1 and as described in sub-clause 1.6.2 at voltages as described above.
- With a specified ambient temperature of 40°C. Temperature limits are calculated as follows:
Winding components providing safety isolation:
 - Class B: $T_{max} = 120 - 10 - 40 + T_{amb}$
 Components with maximum absolute temperature of others:
 - $T_{max} = T_{max} \text{ of component} - 40 + T_{amb}$

4.7	TABLE: Resistance to fire					P
Part	Manufacturer of material	Type of material	Thickness (mm)	Flammability class	Evidence	
PCB	--	--	--	V-1	UL	
Plastic enclosure *	--	--	--	HB	UL	
Supplementary information: See table 1.5.1.						
* Not fire enclosure.						

5.1	TABLE: touch current measurement			P
Measured between:	Measured (mA)	Limit (mA)	Comments/conditions	
Test with power board 715G7610				
L – metal enclosure	0.72	3.5	Switch “e” open	
N – metal enclosure	0.72	3.5	Switch “e” open	

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
L – signal connector	0.17	0.25	Switch “e” close *
N – signal connector	0.17	0.25	Switch “e” close *
L – plastic enclosure	0.01	0.25	Switch “e” close
N – plastic enclosure	0.01	0.25	Switch “e” close
Supplementary information: Input Voltage is 264Vac, 60Hz.			
* Test performed with functional earthing disconnected.			

5.2	TABLE: Electric strength tests, impulse tests and voltage surge tests			P
Test voltage applied between:		Voltage shape (AC, DC, impulse, surge)	Test voltage (V)	Breakdown Yes / No
Test with power board 715G7300				
Basic/supplementary:				
Unit primary to earthed metal part		AC	1834	No
Mylar sheet ²⁾		AC	1834	No
Heat shrinkable tube used on metal pillar near C907		AC	1834	No
Reinforced:				
L/N to accessible plastic enclosure with metal foil		AC	3000	No
Unit primary to secondary (output)		DC	4242	No
T902 ¹⁾ : primary to secondary		AC	3000	No
T902 ¹⁾ : core to secondary		AC	3000	No
T902 ¹⁾ : each layer of insulation tape		AC	3000	No
Supplementary information:				
1. For all sources of transformer;				
2. For all source of mylar sheet;				
3. The tests mentioned above were performed after humidity test.				

5.2	TABLE: Electric strength tests, impulse tests and voltage surge tests			P
Test voltage applied between:		Voltage shape (AC, DC, impulse, surge)	Test voltage (V)	Breakdown Yes / No
Tested with power board 715G7610				
Basic/supplementary:				
Unit primary to earthed metal part		AC	1740	No

IEC 60950-1				
Clause	Requirement + Test	Result - Remark	Verdict	
Mylar sheet ²⁾		AC	1740	No
Heat shrinkable tube used on metal pillar near C907		AC	1740	No
Double/reinforced:				
L/N to external plastic enclosure with metal foil		AC	3000	No
L/N to output terminals		AC	3000	No
T901 ¹⁾ : primary to secondary		AC	3000	No
T901 ¹⁾ : core to secondary		AC	3000	No
T901 ¹⁾ : each layer of insulation tape		AC	3000	No
Supplementary information:				
1. For all sources of transformer;				
2. For all source of mylar sheet;				
3. The tests mentioned above were performed after humidity test.				

5.3	TABLE: Fault condition tests					P
	Ambient temperature (°C)		See below			—
	Power source for EUT: Manufacturer, model/type, output rating		See appended table 1.5.1			—
Component No.	Fault	Supply voltage (V)	Test time	Fuse #	Fuse current (A)	Observation
Test with power board 715G7300 and main board 715G9496						
Ventilation openings	blocked	264	4h	F901	0.17	Unit operated normally, no hazards, no damage. After temperature reached stable, max. measured temp. in T902 coil = 54.2 °C, T902 core = 51.1 °C, U902 = 38.5 °C, ambient = 14.1 °C.
T902 pin 7 to 10 (after D901) (V _{out} output)	o-l	264	7h	F901	0.34	Max. measured temp. in T902 coil = 89.4 °C, T902 core = 83.5 °C, U902 = 58.0 °C, ambient = 13.9 °C, before shutdown winding is loaded to 1.3A. No damage, no hazards.
Tested with power board 715G7610						
BD9901 pin 2-3	s-c	264	10 mins	F9901	0	Fuse open immediately, no hazards.
C901	s-c	264	10 mins	F9901	0	Fuse open immediately, no hazards.

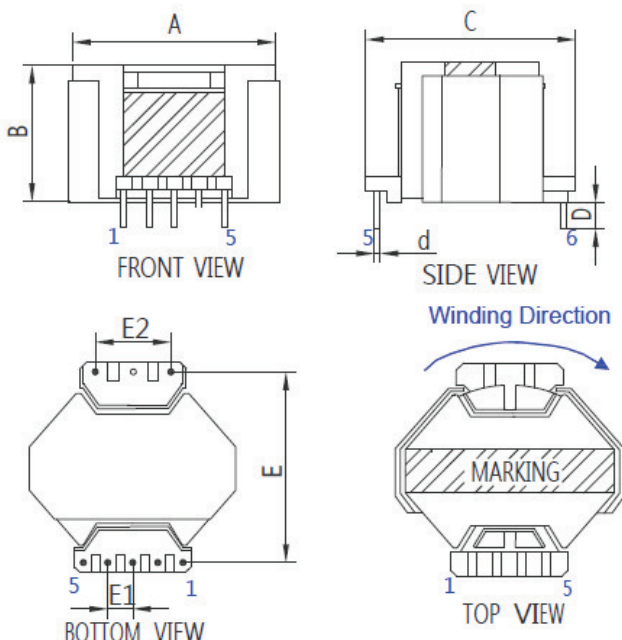
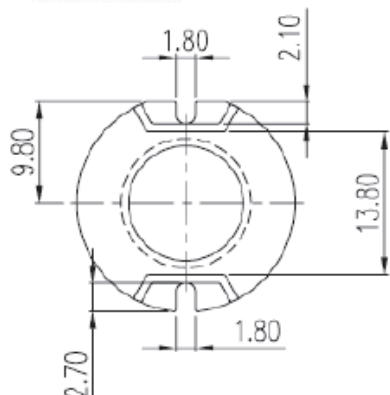
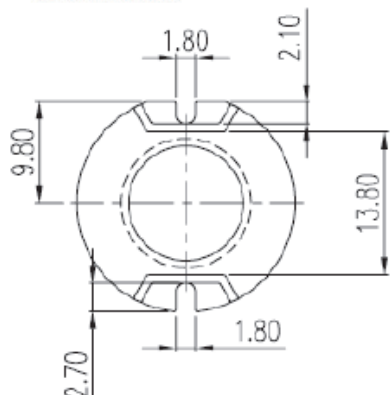
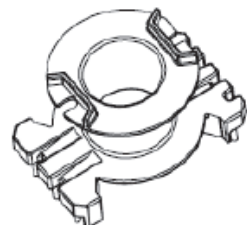
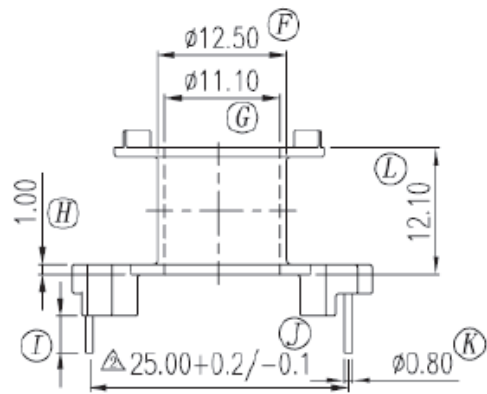
IEC 60950-1						
Clause	Requirement + Test			Result - Remark		Verdict
Q901 G-S	s-c	264	10 mins	F9901	0.03	EUT shut down, no hazards.
Q901 G-D	s-c	264	10 mins	F9901	0.03	EUT shut down, Q901 damage, no hazards.
Q901 S-D	s-c	264	10 mins	F9901	0.03	EUT shut down, Q901 damage, no hazards.
R916	s-c	264	10 mins	F9901	0.42	Normal working, no damage, no hazards.
U901 pin 4-1	s-c	264	10 mins	F9901	0.03	EUT shut down, U901 damage, no hazards.
U901 pin 4-6	s-c	264	10 mins	F9901	0.03	EUT shut down, U901 damage, no hazards.
U901 pin 4-2	s-c	264	10 mins	F9901	0.03	EUT shut down, U901 damage, no hazards.
T901 pin 1-2	s-c	264	10 mins	F9901	0.03	EUT shut down, no damage, no hazards.
T901 pin 3-5	s-c	264	10 mins	F9901	0.03	EUT shut down, no damage, no hazards.
T901 pin 6-8	s-c	264	10 mins	F9901	0.03	EUT shut down, no damage, no hazards.
U902 pin1-2	s-c	264	10 mins	F9901	0.03	EUT shut down, no damage, no hazards.
U902 pin3-4	s-c	264	10 mins	F9901	0.03	EUT shut down, no damage, no hazards.
U902 pin1	o-c	264	10 mins	F9901	0.03	EUT shut down, no damage, no hazards.
U902 pin3	o-c	264	10 mins	F9901	0.03	EUT shut down, no damage, no hazards.
D901	s-c	264	10 mins	F9901	0.42	Normal working, no damage, no hazards.
C905	s-c	264	10 mins	F9901	0.03	EUT shut down, no damage, no hazards.
Ventilation	blocked	264	4h	F9901	0.42	Normal working, no damage, no hazards, no temperature rise exceeding its limit. Measured temp.: T901 wingding: 71.9 °C T901 core: 67.4 °C U902 body: 49.7 °C Ambient: 14.1 °C.

IEC 60950-1						
Clause	Requirement + Test				Result - Remark	Verdict
T902 pin 6 to 8 (after D901) (19V output)	o-l	264	7h	F9901	0.66	Max. measured temp. in T902 coil = 86.6 °C, T902 core = 79.2 °C, U902 = 62.1 °C, ambient = 14.1 °C, before shutdown winding is loaded to 2.7A. No damage, no hazards.
USB 3.0	o-l	264	4h	F9901	0.45	USB loaded to 1.7A before shut down. No damage, no hazards. Max. measured temp. in T902 coil = 73.3 °C, T902 core = 68.9 °C, U902 = 51.8 °C, ambient = 13.9 °C.
USB fast charging port	o-l	264	4h	F9901	0.48	USB loaded to 2.5A before shut down. No damage, no hazards. Max. measured temp. in T902 coil = 77.9 °C, T902 core = 70.4 °C, U902 = 54.1 °C, ambient = 13.9 °C.
Speaker	s-c	264	10 mins	F9901	0.41	Normal working except for speakers, no damage, no hazards.
Supplementary information: - The unit passed 3000V hi-pot test between primary and accessible output connector after single fault test above. - In fault column, where s-c=short-circuited, o-c=open-circuited, o-l = overload. - For fuse opened conditions were tested with each source of fuse. - For component damaged conditions have been repeated twice (three tests total) with same result. - Temp. limit of transformer according to table C.1 is 175°C - 10 - (40°C - 13.9°C) = 138.9°C (worst case) for Class B.						

C.2	TABLE: transformers on power board 715G7610						P
Loc.	Tested insulation	Working voltage peak / V (2.10.2)	Working voltage rms / V (2.10.2)	Required electric strength (5.2)	Required clearance / mm (2.10.3)	Required creepage distance / mm (2.10.4)	Required distance thr. insul. (2.10.5)
T901	Input terminal to output winding (RI)	494	256	AC 3000V	6.6	6.6	Min. 2 layers tape
T901	Input terminal to output terminal (RI)	494	256	AC 3000V	6.6	6.6	Min. 2 layers tape

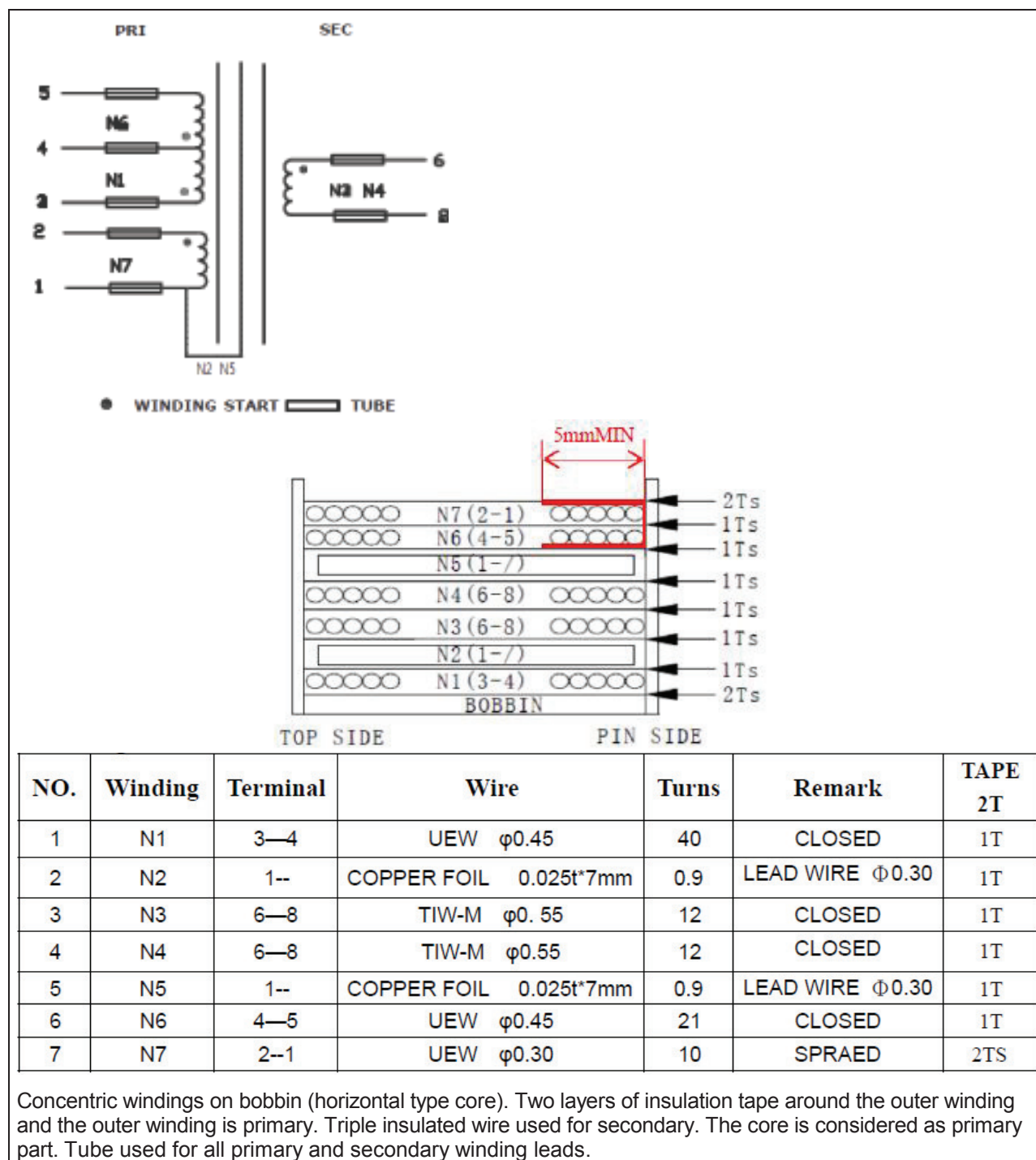
IEC 60950-1							
Clause	Requirement + Test			Result - Remark			Verdict
T901	Input winding to output winding (RI)	494	256	AC 3000V	6.6	6.6	Min. 2 layers tape
T901	Input winding to output terminal (RI)	494	256	AC 3000V	6.6	6.6	Min. 2 layers tape
T901	Output winding to Core (BI)	494	256	AC 3000V	6.6	6.6	Min. 2 layers tape
T901	Output terminal to Core (BI)	494	256	AC 3000V	6.6	6.6	Min. 2 layers tape
Loc.	Tested insulation			Test voltage/ V	Measured clearance / mm	Measured creepage dist./ mm	Measured distance thr. insul. / mm; number of layers
T901	Input terminal to output winding (RI)			AC 3000V	Triple insulated wire used for secondary	Triple insulated wire used for secondary	--
T901	Input terminal to output terminal (RI)			AC 3000V	24.5	24.5	--
T901	Input winding to output winding (RI)			AC 3000V	Triple insulated wire used for secondary	Triple insulated wire used for secondary	--
T901	Input winding to output terminal (RI)			AC 3000V	7.0	7.0	--
T901	Output terminal to Core (BI)			AC 3000V	6.8	6.8	--
T901	Output winding to Core (BI)			AC 3000V	Triple insulated wire used for secondary	Triple insulated wire used for secondary	--
Supplementary information: All sources of transformer were checked with same construction.							

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict

C.2	TABLE: transformers	P	
Construction:			
3.1, Dimensions			
		A: $30.0 \pm 2.0\text{mm}$ B: $19.0 \pm 2.0\text{mm}$ C: $29.0 \pm 2.0\text{mm}$ D: $3.5 \pm 0.5\text{mm}$ E: $25.0 \pm 0.3\text{mm}$ E1: $3.5 \pm 0.3\text{mm}$ E2: $10.0 \pm 0.3\text{mm}$ d: $0.8 \pm 0.2\text{mm}$	
		NOTE: 1. Lead Wire Composition Steel 78% Cu 22% Sn 99.99% (Thickness $6^{-2}/\mu\text{t}$) Lead Free Solder Sn 98% Cu 2%	
		2. GAP CORE TO PIN SIDE;	
			

IEC 60950-1

Clause	Requirement + Test	Result - Remark	Verdict
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Product: LCD monitor (LED Backlight)

Type Designation: 22P1D, 22E1, **22***** (* can be 0-9, A-Z, a-z, -, \, /, + or blank, represent different enclosure colour for marketing purpose)



Figure 1. Overview with plastic enclosure type A and base type B



Figure 2. Overview with plastic enclosure type A and base type B

Product: LCD monitor (LED Backlight)

Type Designation: 22P1D, 22E1, **22***** (* can be 0-9, A-Z, a-z, -, \, /, + or blank, represent different enclosure colour for marketing purpose)



Figure 3. Overview with plastic enclosure type B and type A (horizontal)



Figure 4. Overview with plastic enclosure type B and type A (horizontal)

Product: LCD monitor (LED Backlight)

Type Designation: 22P1D, 22E1, **22***** (* can be 0-9, A-Z, a-z, -, \, /, + or blank, represent different enclosure colour for marketing purpose)



Figure 5. Overview with plastic enclosure type B (horizontal)



Figure 6. Overview with plastic enclosure type B and type A (vertical)

Product: LCD monitor (LED Backlight)

Type Designation: 22P1D, 22E1, **22***** (* can be 0-9, A-Z, a-z, -, \, /, + or blank, represent different enclosure colour for marketing purpose)



Figure 7. Overview with plastic enclosure type B and type A (vertical)

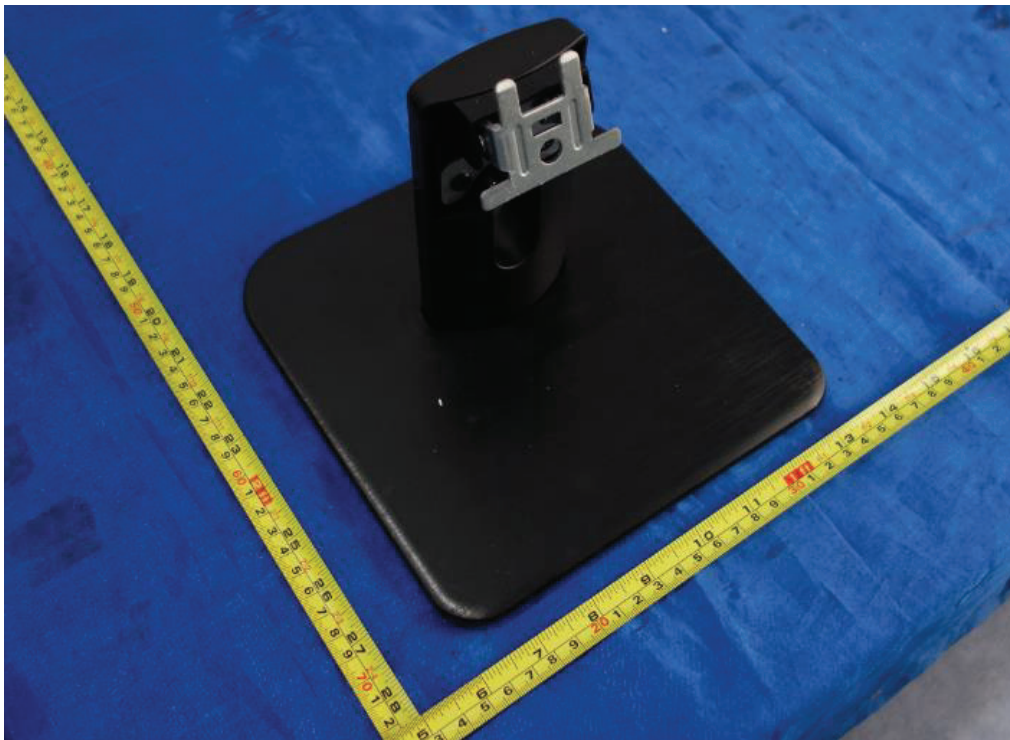


Figure 8. Base type B

Product: LCD monitor (LED Backlight)

Type Designation: 22P1D, 22E1, **22***** (* can be 0-9, A-Z, a-z, -, \, /, + or blank, represent different enclosure colour for marketing purpose)

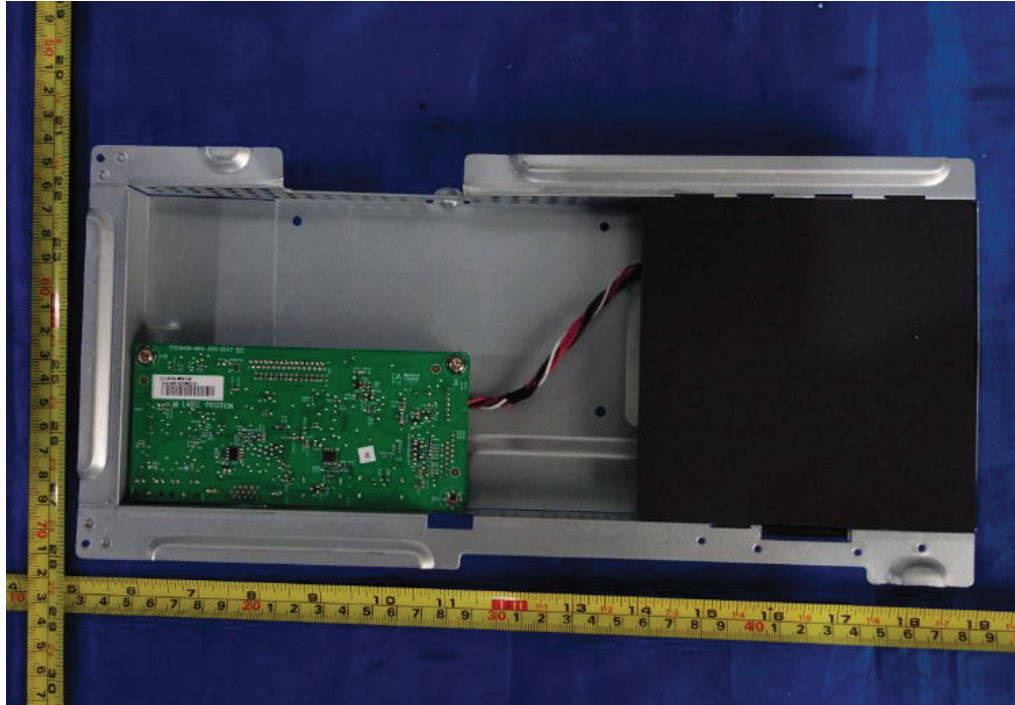


Figure 9. Metal enclosure type A with power board 715G7300 and main board 715G9496

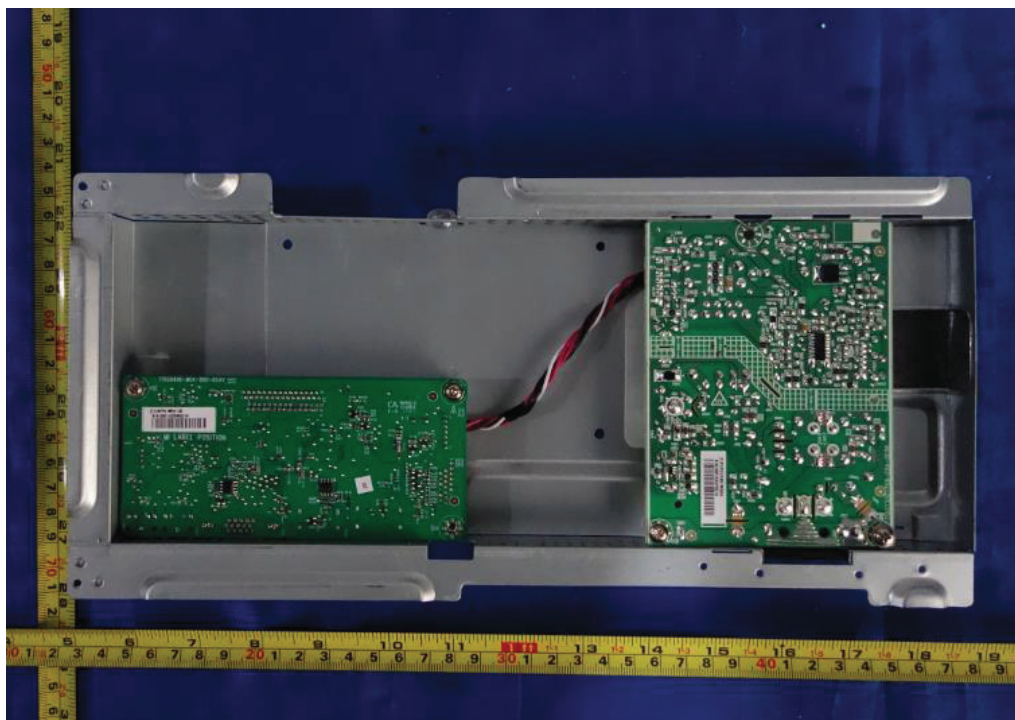


Figure 10. Metal enclosure type A with power board 715G7300 and main board 715G9496

Product: LCD monitor (LED Backlight)

Type Designation: 22P1D, 22E1, **22***** (* can be 0-9, A-Z, a-z, -, \, /, + or blank, represent different enclosure colour for marketing purpose)

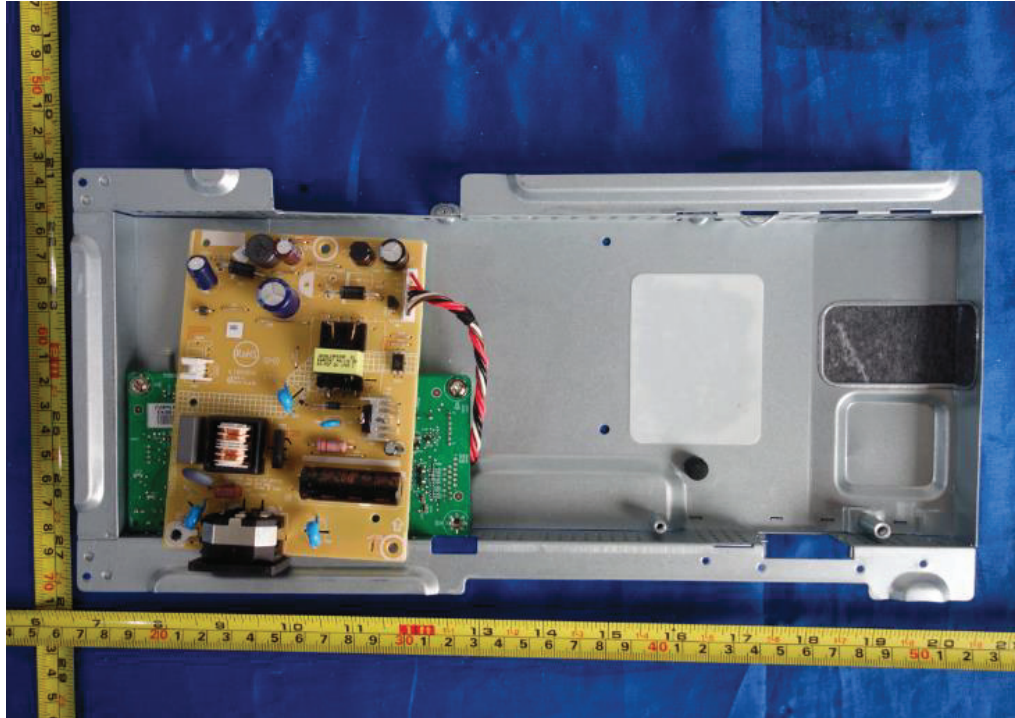


Figure 11. Metal enclosure type A with power board 715G7300 and main board 715G9496

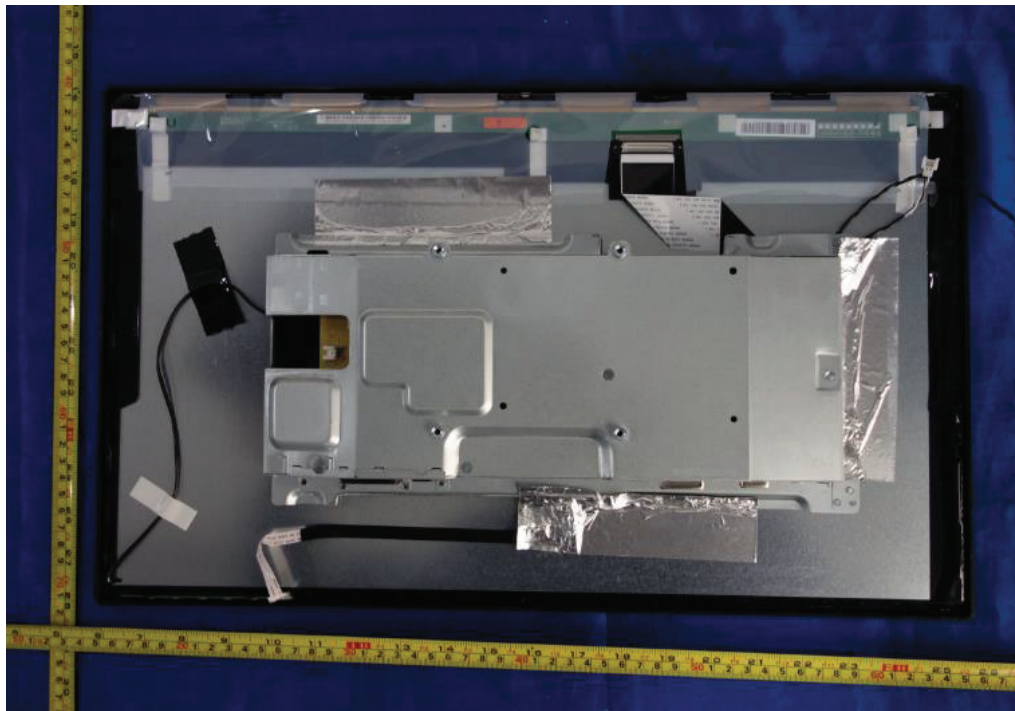


Figure 12. Metal enclosure type B with power board 715G7300 and main board 715G9496

Product: LCD monitor (LED Backlight)

Type Designation: 22P1D, 22E1, **22***** (* can be 0-9, A-Z, a-z, -, \, /, + or blank, represent different enclosure colour for marketing purpose)

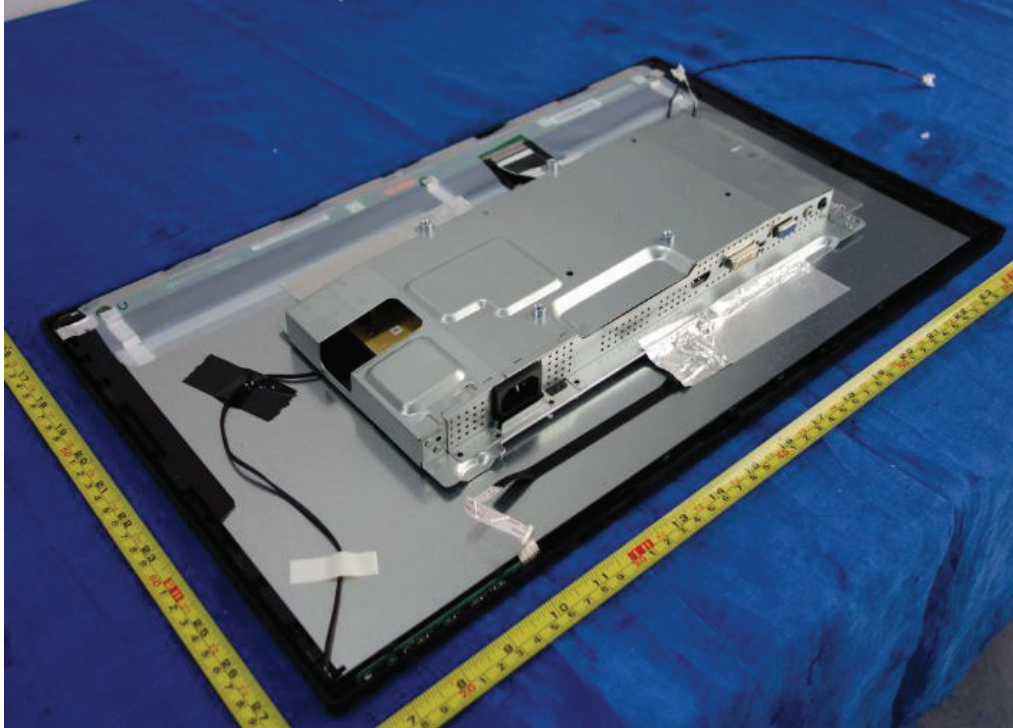


Figure 13. Metal enclosure type B with power board 715G7300 and main board 715G9494

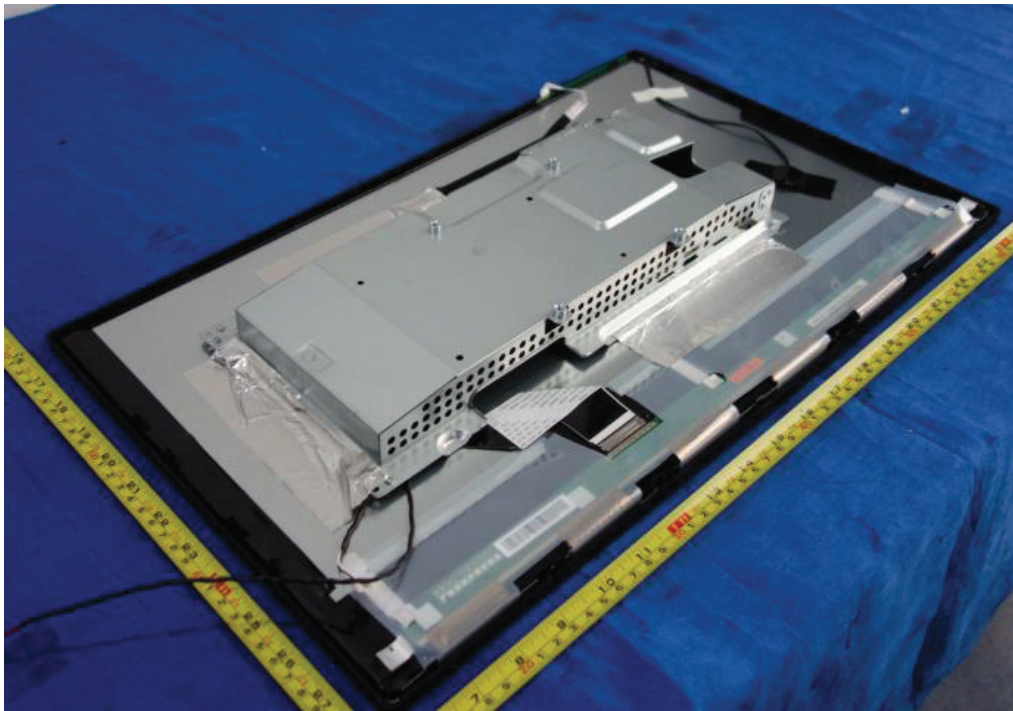


Figure 14. Metal enclosure type B with power board 715G7300 and main board 715G9494

Product: LCD monitor (LED Backlight)

Type Designation: 22P1D, 22E1, **22***** (* can be 0-9, A-Z, a-z, -, \, /, + or blank, represent different enclosure colour for marketing purpose)

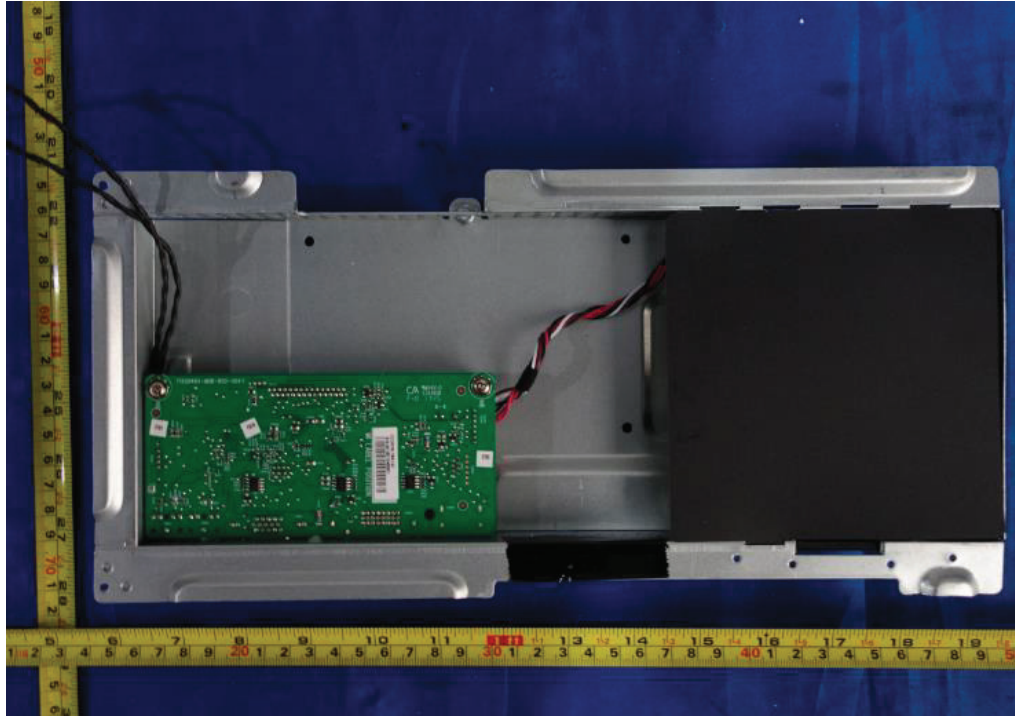


Figure 15. Metal enclosure type B with power board 715G7300 and main board 715G9494

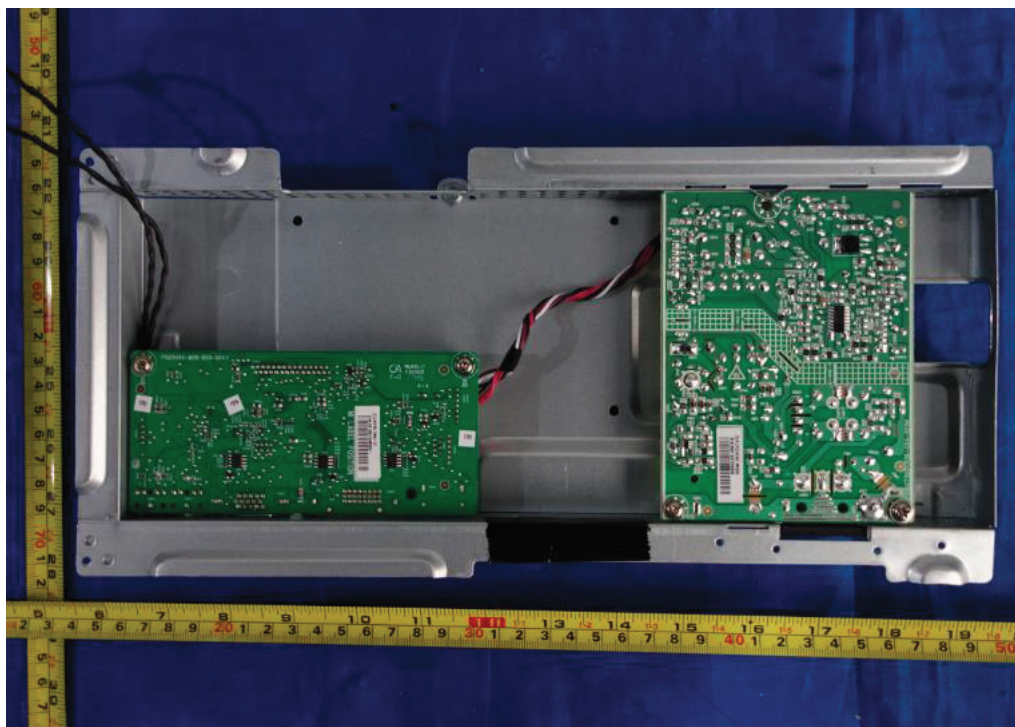


Figure 16. Metal enclosure type B with power board 715G7300 and main board 715G9494

Product: LCD monitor (LED Backlight)

Type Designation: 22P1D, 22E1, **22***** (* can be 0-9, A-Z, a-z, -, \, /, + or blank, represent different enclosure colour for marketing purpose)

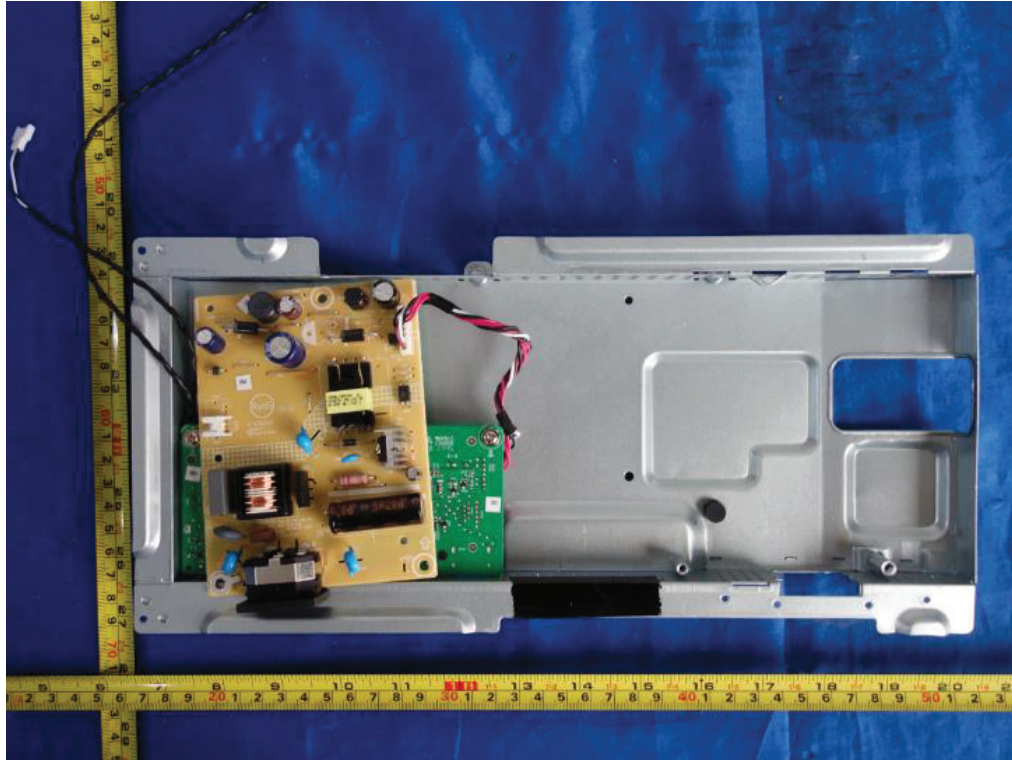


Figure 17. Metal enclosure type B with power board 715G7300 and main board 715G9494

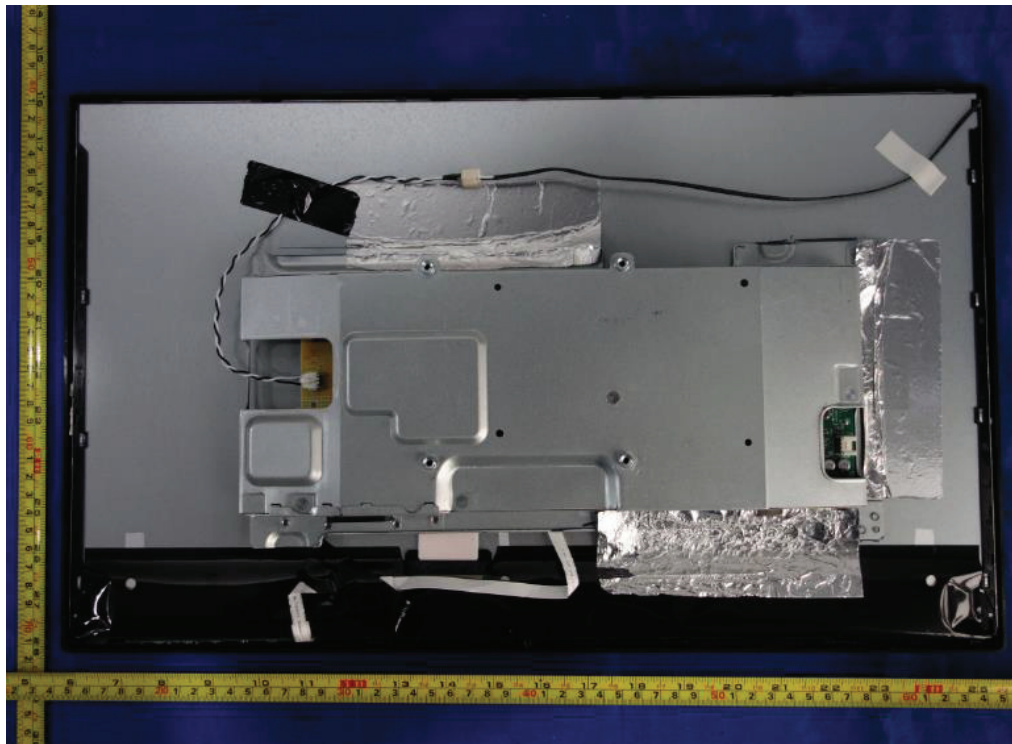


Figure 18. Metal enclosure type C with power board 715G7300 and main board 715G9496

Product: LCD monitor (LED Backlight)

Type Designation: 22P1D, 22E1, **22***** (* can be 0-9, A-Z, a-z, -, \, /, + or blank, represent different enclosure colour for marketing purpose)

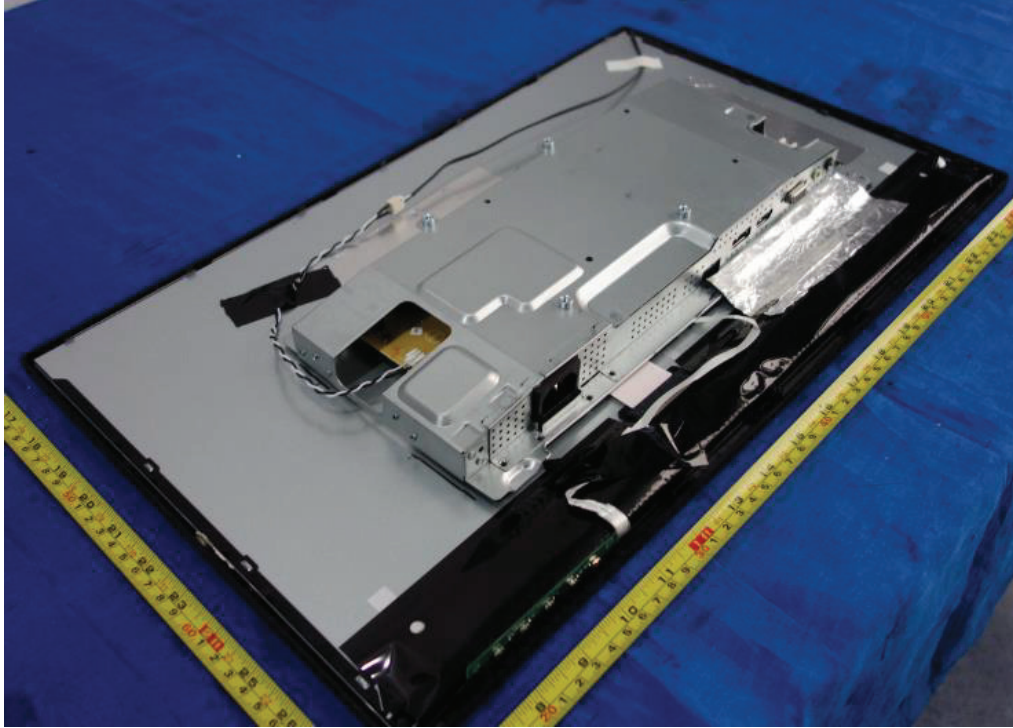


Figure 19. Metal enclosure type C with power board 715G7300 and main board 715G9496

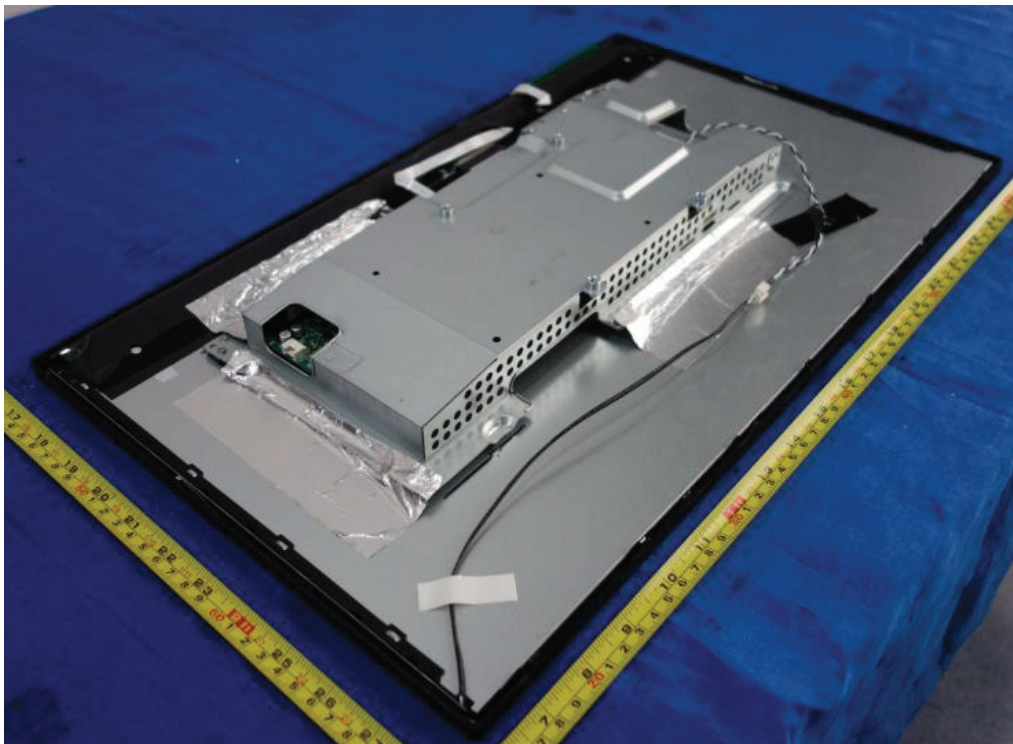


Figure 20. Metal enclosure type C with power board 715G7300 and main board 715G9496

Product: LCD monitor (LED Backlight)

Type Designation: 22P1D, 22E1, **22***** (* can be 0-9, A-Z, a-z, -, \, /, + or blank, represent different enclosure colour for marketing purpose)

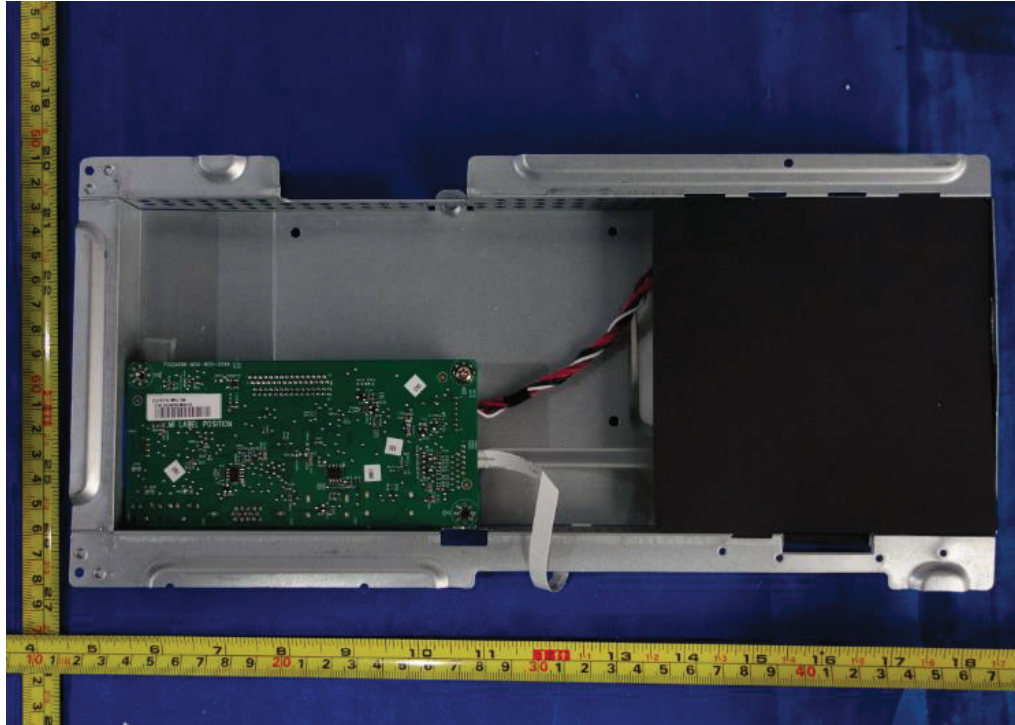


Figure 21. Metal enclosure type C with power board 715G7300 and main board 715G9496

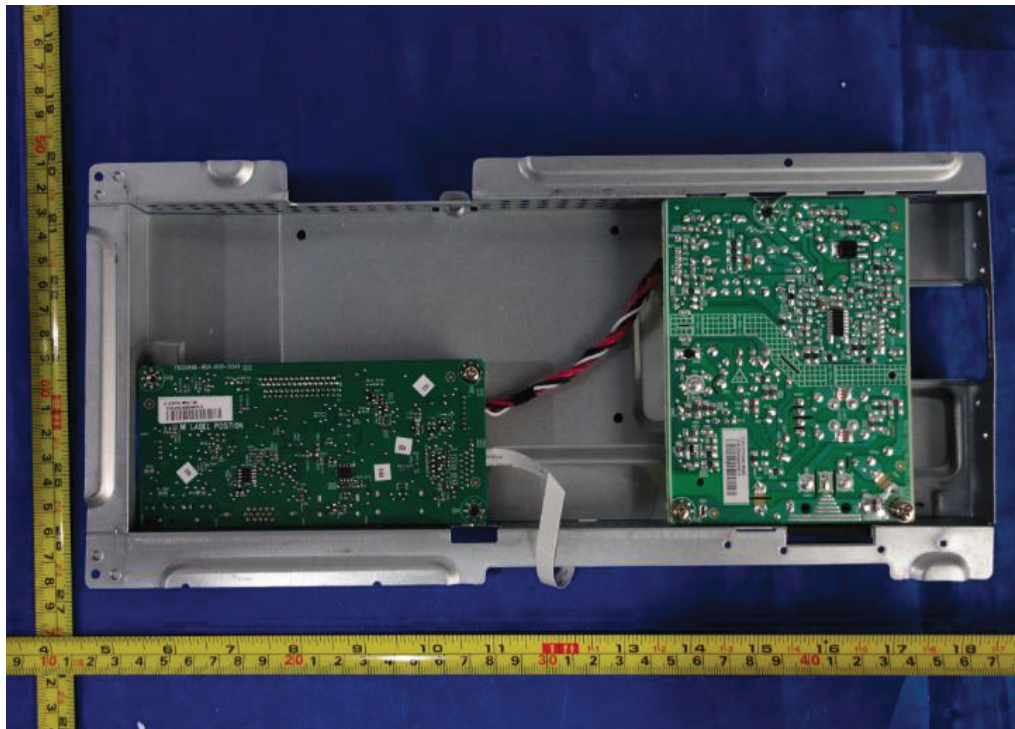


Figure 22. Metal enclosure type C with power board 715G7300 and main board 715G9496

Product: LCD monitor (LED Backlight)

Type Designation: 22P1D, 22E1, **22***** (* can be 0-9, A-Z, a-z, -, \, /, + or blank, represent different enclosure colour for marketing purpose)

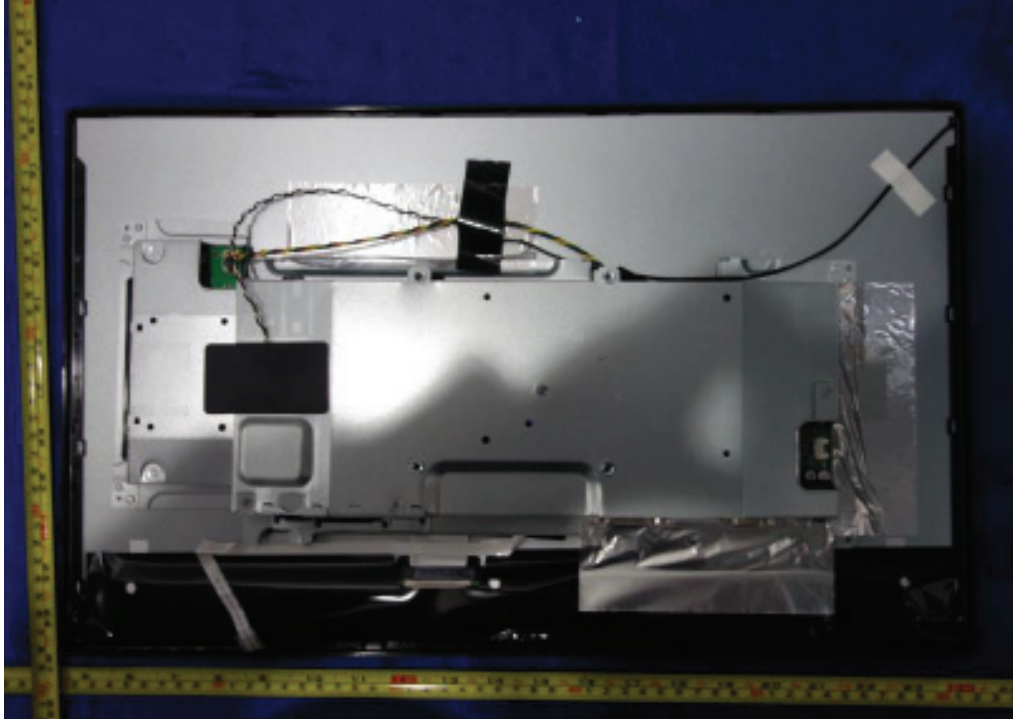


Figure 23. Metal enclosure type D



Figure 24. Metal enclosure type D

Product: LCD monitor (LED Backlight)

Type Designation: 22P1D, 22E1, **22***** (* can be 0-9, A-Z, a-z, -, \, /, + or blank, represent different enclosure colour for marketing purpose)



Figure 25. Metal enclosure type D

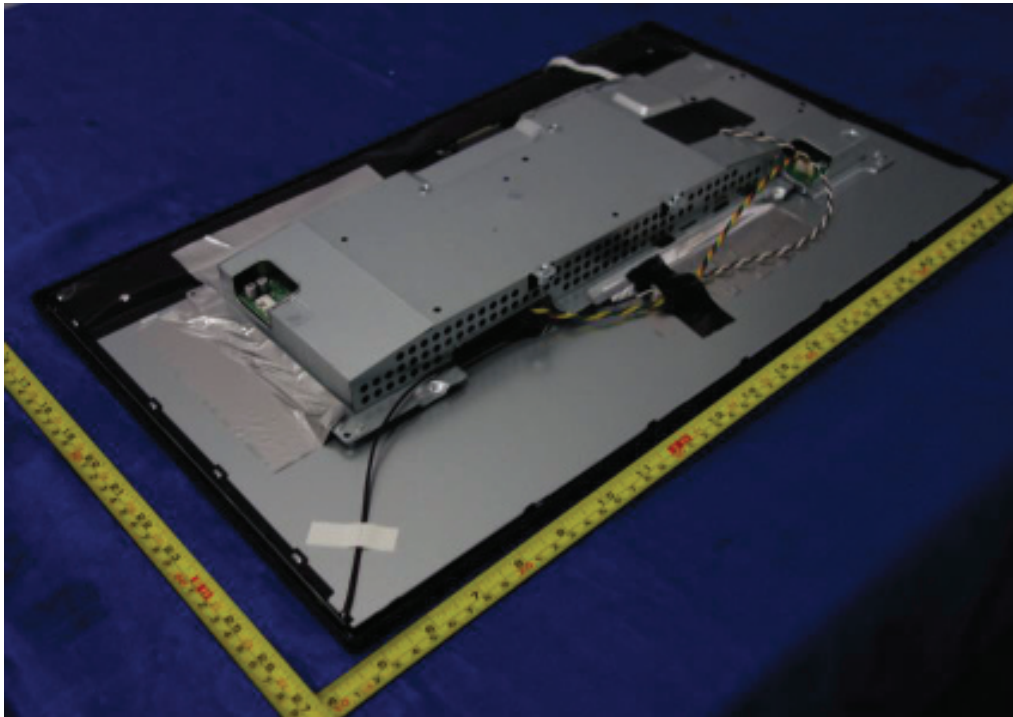


Figure 26. Metal enclosure type D

Product: LCD monitor (LED Backlight)

Type Designation: 22P1D, 22E1, **22***** (* can be 0-9, A-Z, a-z, -, \, /, + or blank, represent different enclosure colour for marketing purpose)



Figure 27. Metal enclosure type D

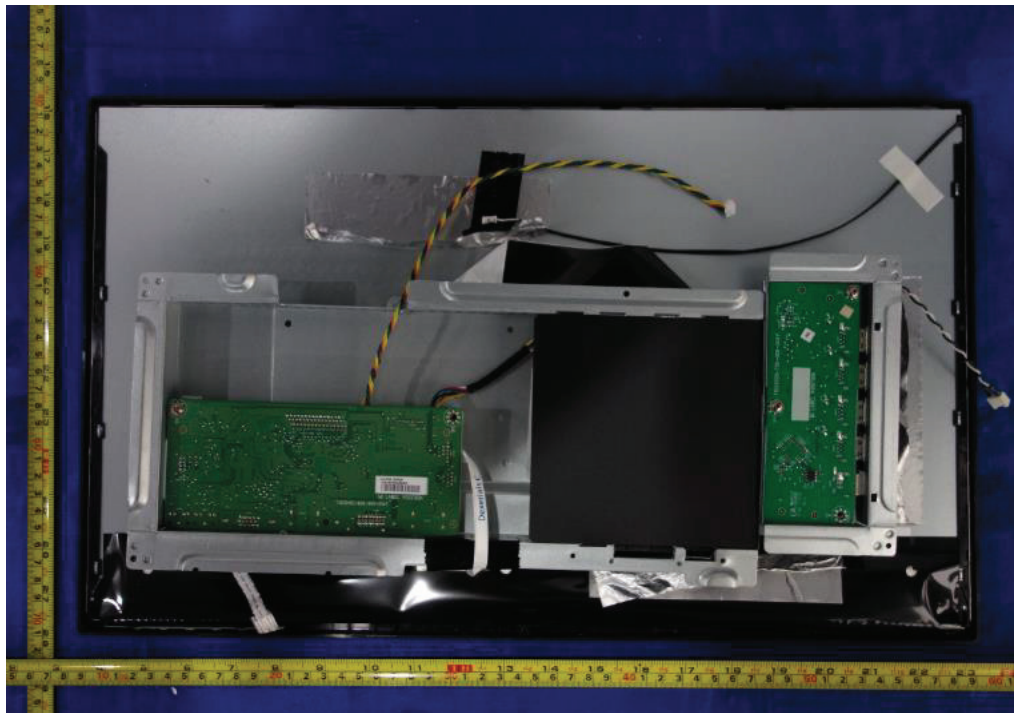


Figure 28. Metal enclosure type D

Product: LCD monitor (LED Backlight)

Type Designation: 22P1D, 22E1, **22***** (* can be 0-9, A-Z, a-z, -, \, /, + or blank, represent different enclosure colour for marketing purpose)

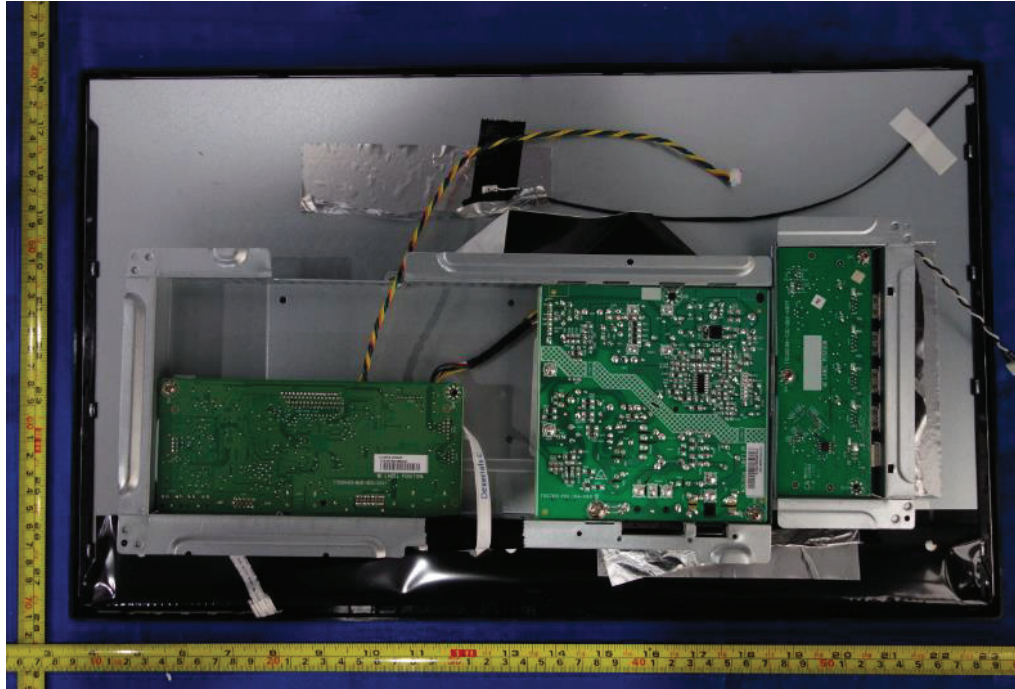


Figure 29. Metal enclosure type D

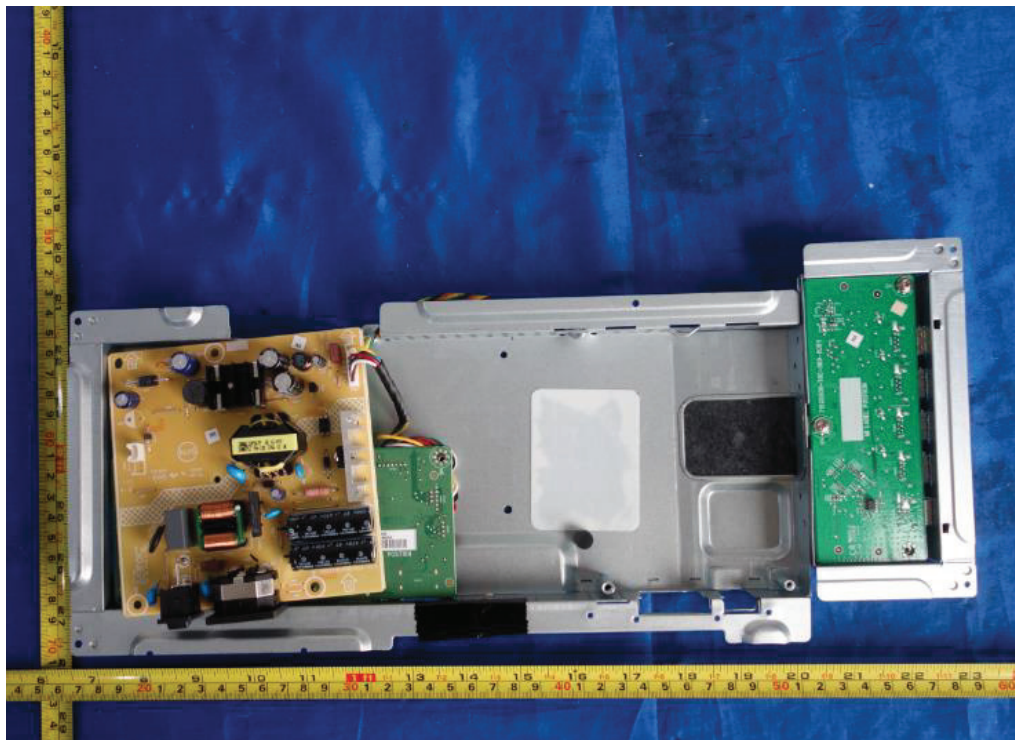


Figure 30. Metal enclosure type D

Product: LCD monitor (LED Backlight)

Type Designation: 22P1D, 22E1, **22***** (* can be 0-9, A-Z, a-z, -, \, /, + or blank, represent different enclosure colour for marketing purpose)

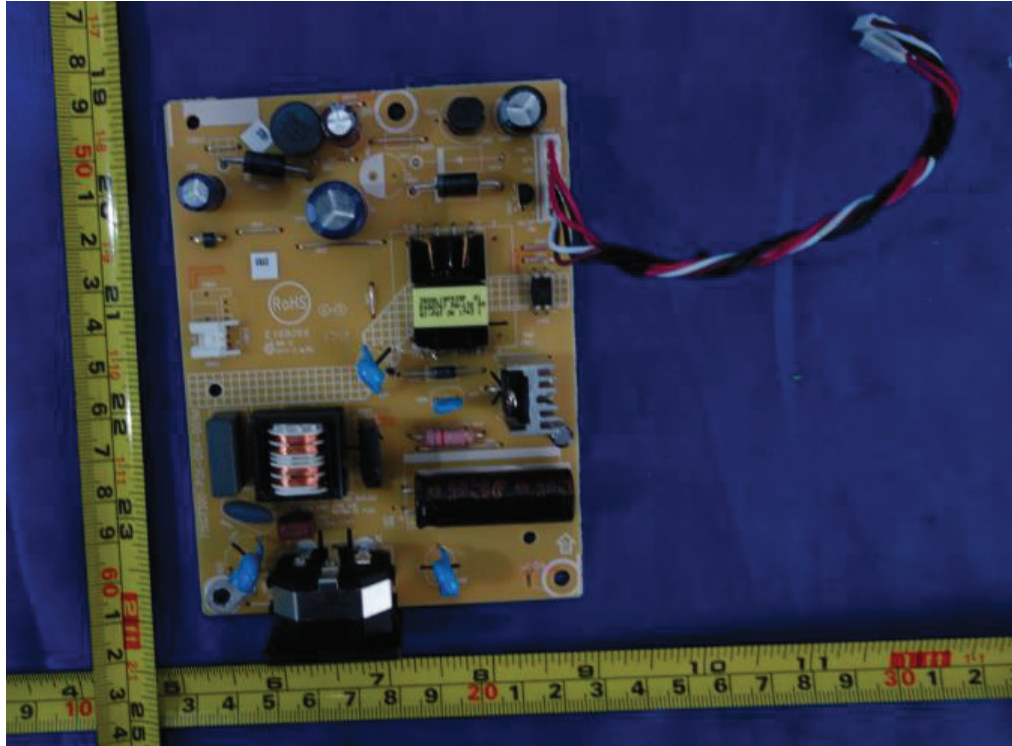


Figure 31. Power board 715G7300

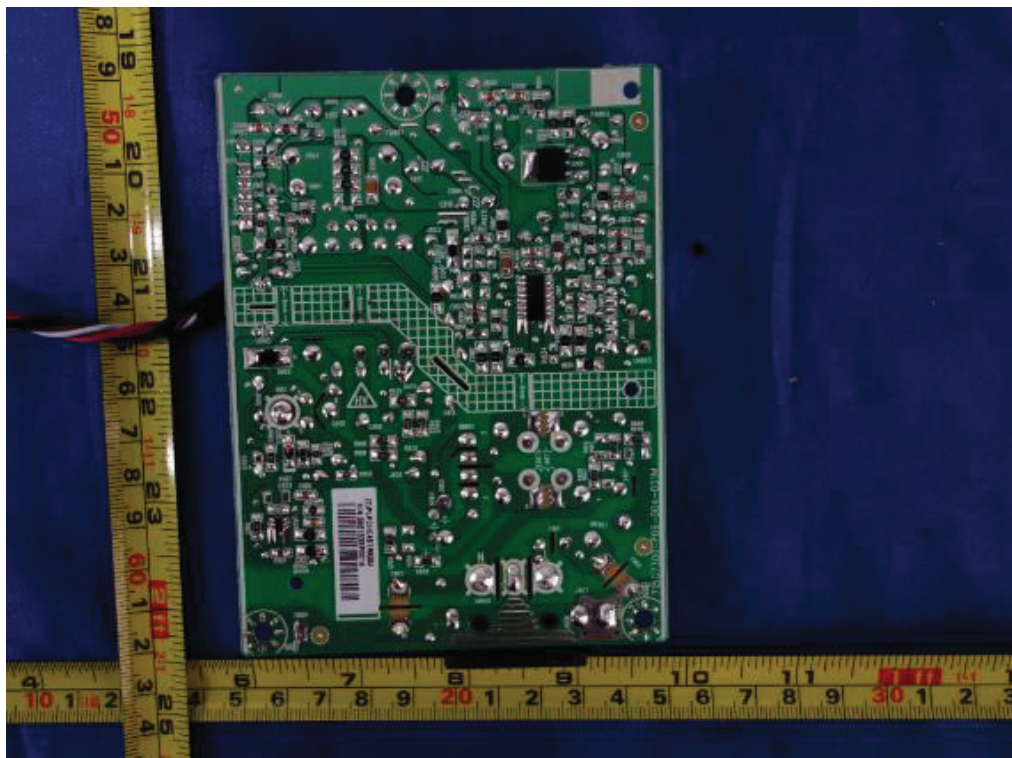


Figure 32. Power board 715G7300

Product: LCD monitor (LED Backlight)

Type Designation: 22P1D, 22E1, **22***** (* can be 0-9, A-Z, a-z, -, \, /, + or blank, represent different enclosure colour for marketing purpose)

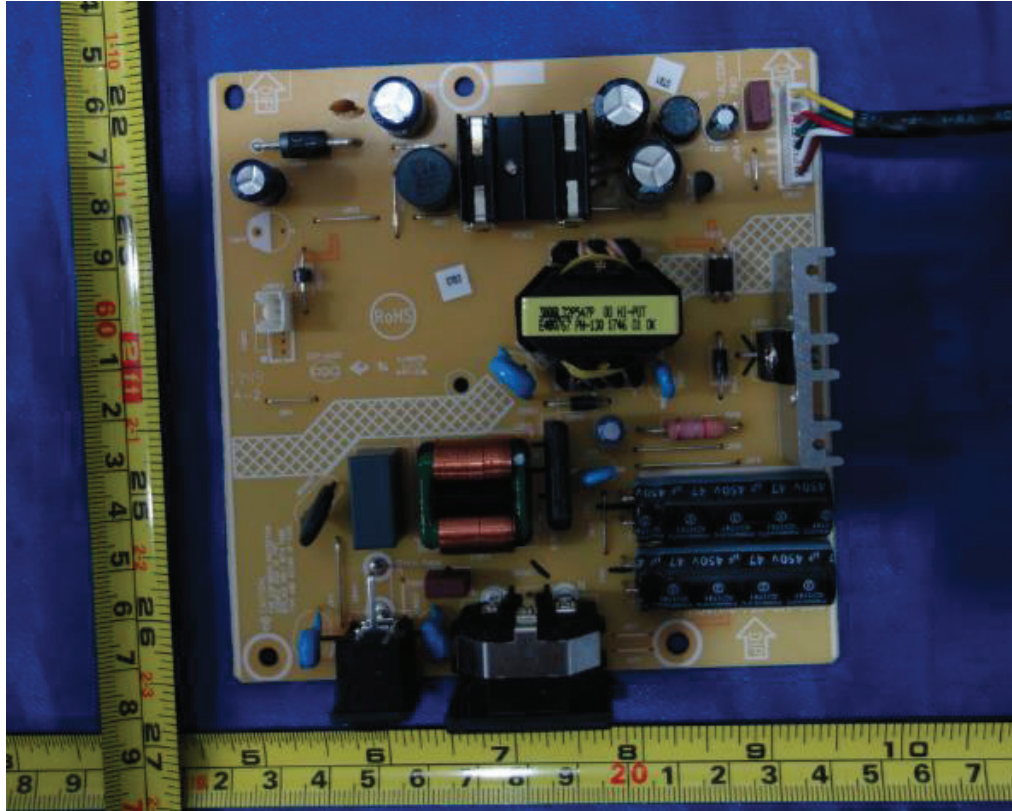


Figure 33. Power board 715G7610

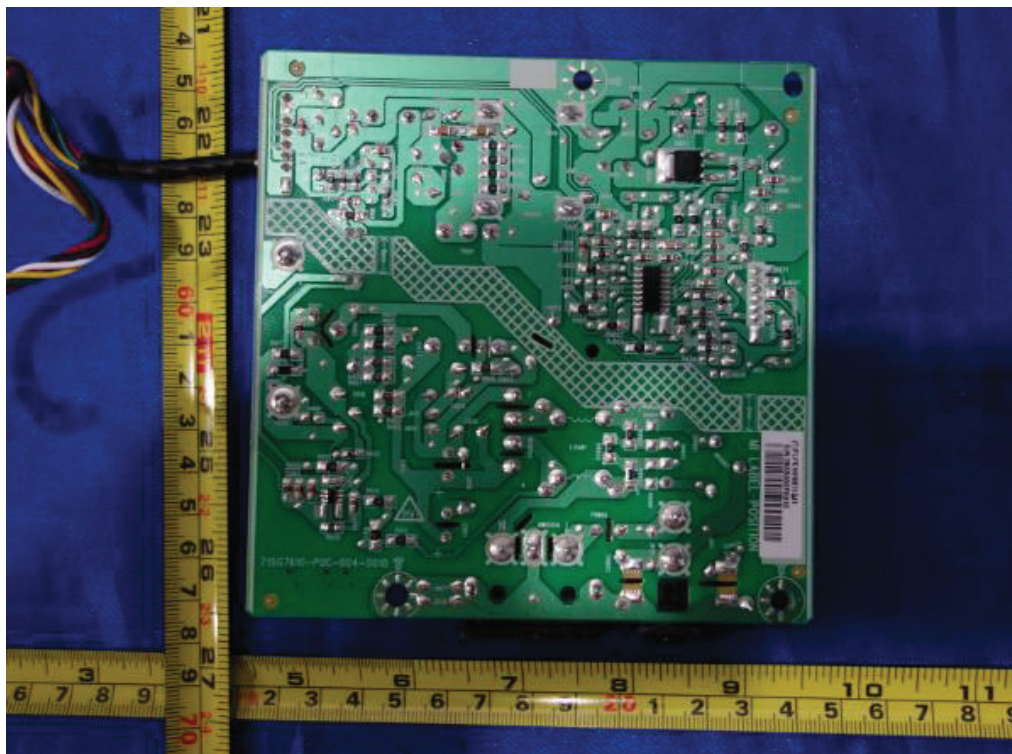


Figure 34. Power board 715G7610

Product: LCD monitor (LED Backlight)

Type Designation: 22P1D, 22E1, **22***** (* can be 0-9, A-Z, a-z, -, \, /, + or blank, represent different enclosure colour for marketing purpose)

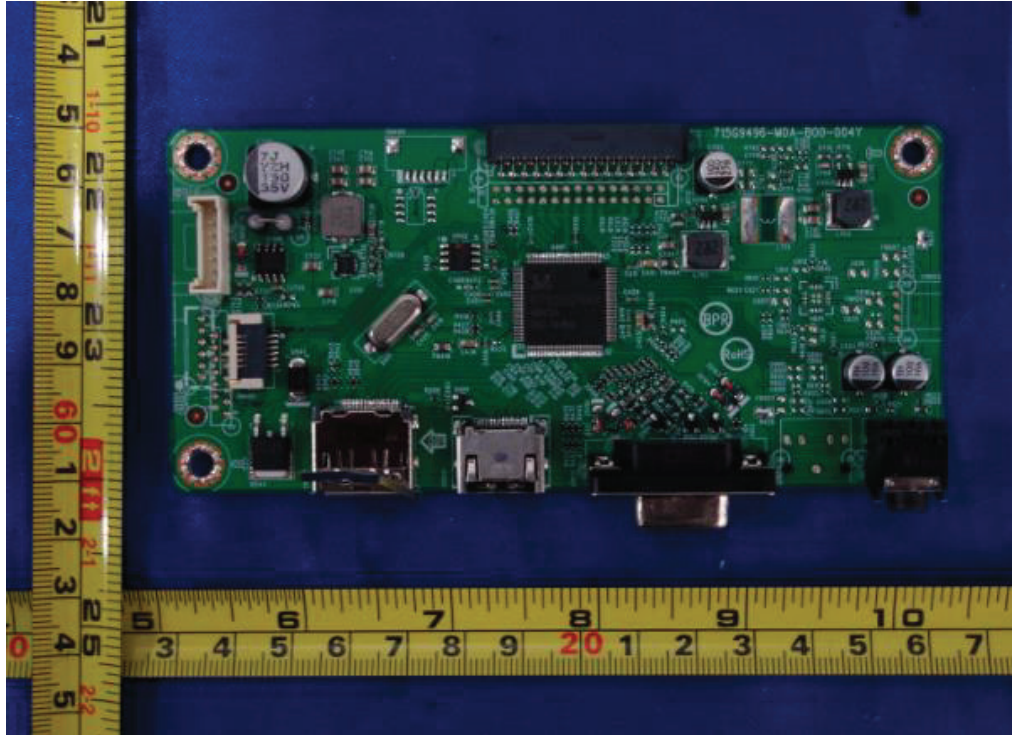


Figure 35. Main board 715G9496

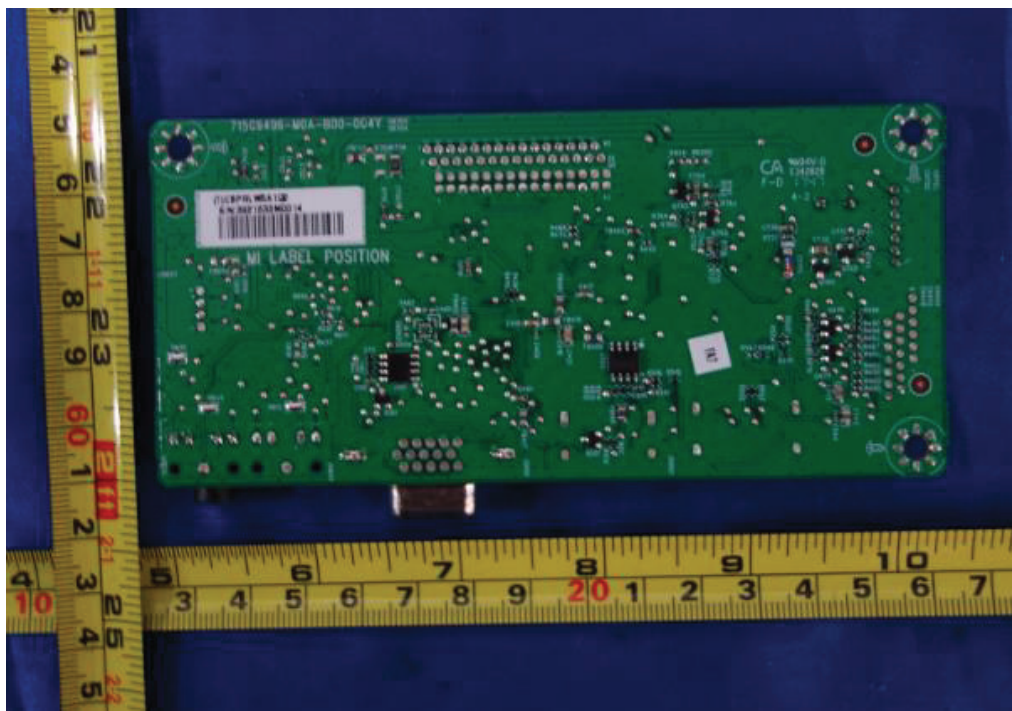


Figure 36. Main board 715G9496

Product: LCD monitor (LED Backlight)

Type Designation: 22P1D, 22E1, **22***** (* can be 0-9, A-Z, a-z, -, \, /, + or blank, represent different enclosure colour for marketing purpose)

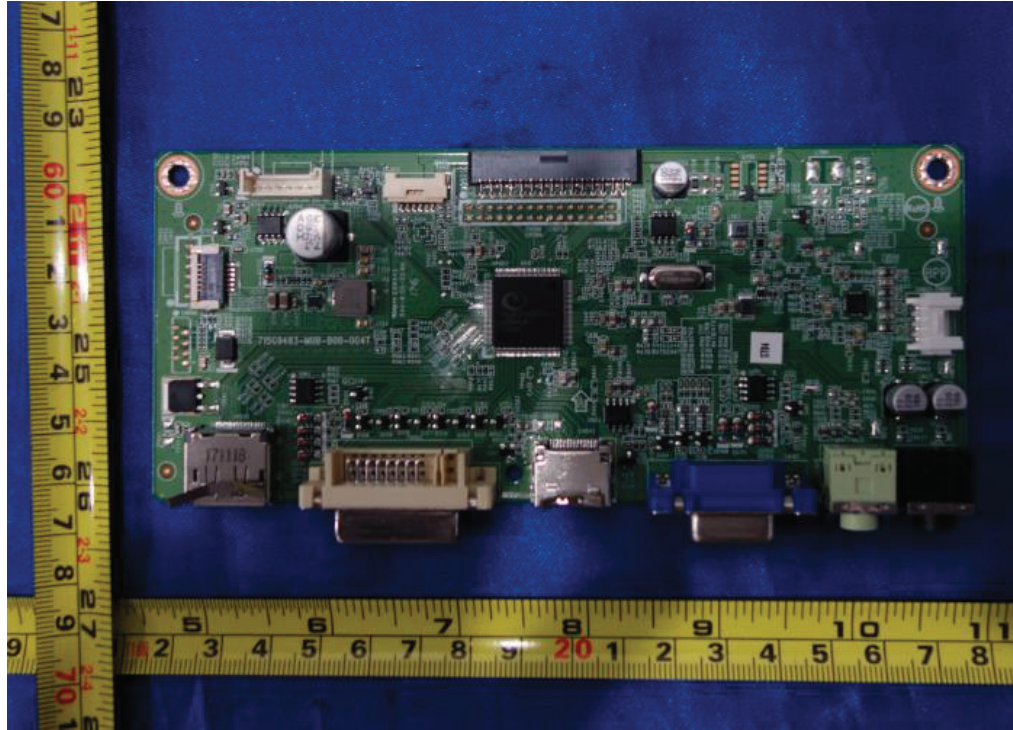


Figure 37. Main board 715G9483

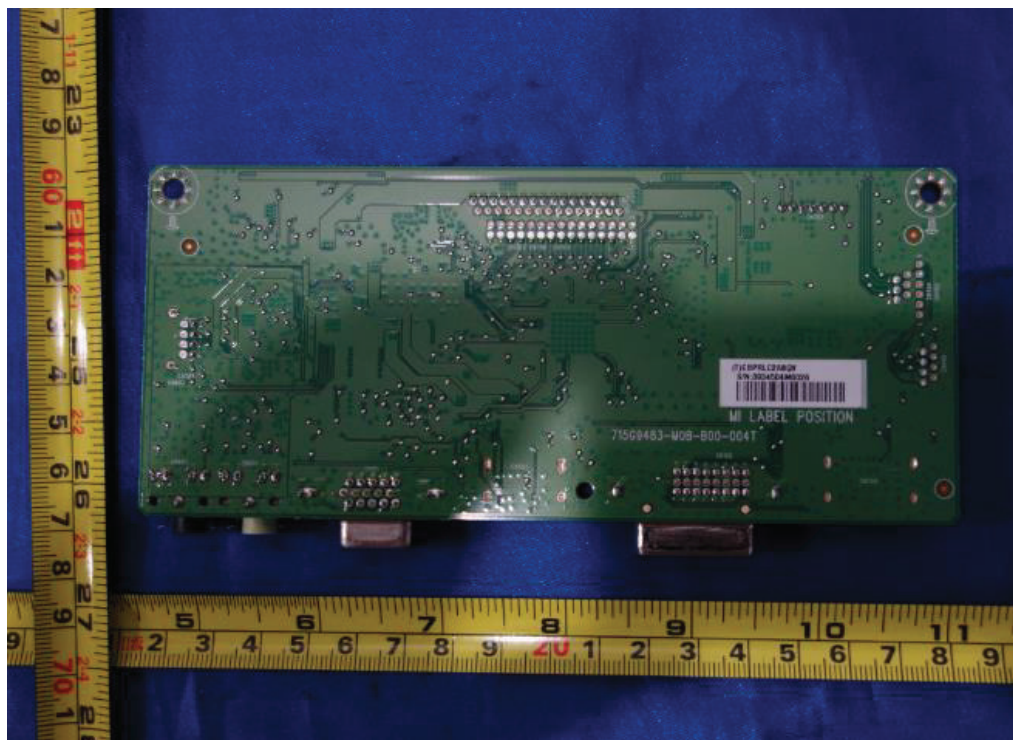


Figure 38. Main board 715G9483

Product: LCD monitor (LED Backlight)

Type Designation: 22P1D, 22E1, **22***** (* can be 0-9, A-Z, a-z, -, \, /, + or blank, represent different enclosure colour for marketing purpose)

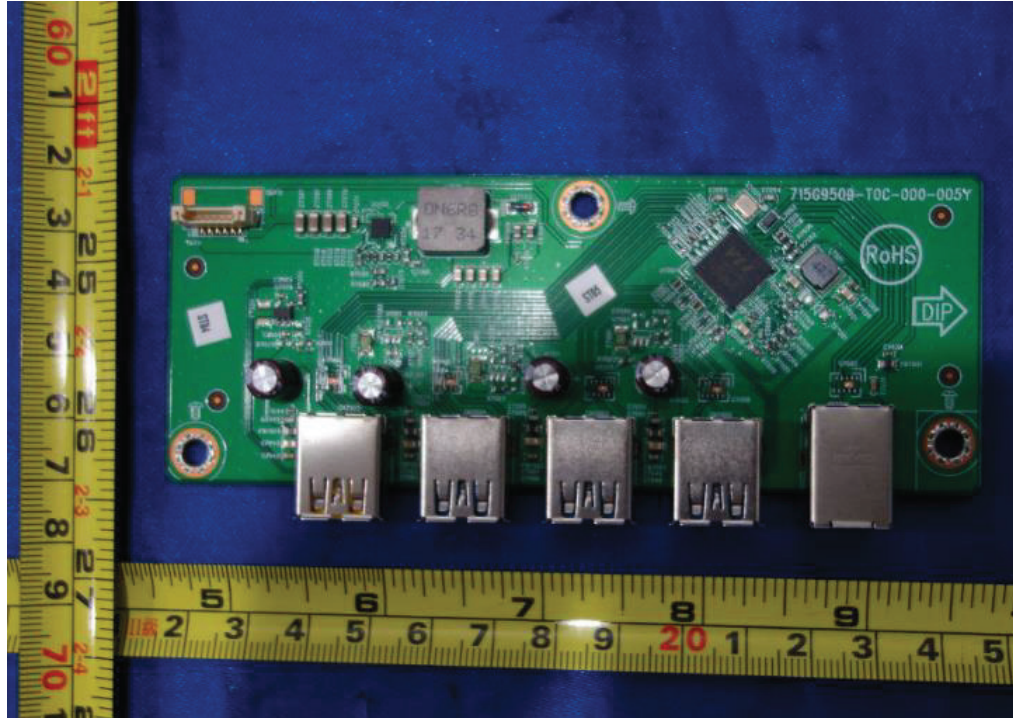


Figure 39. USB board 715G9509

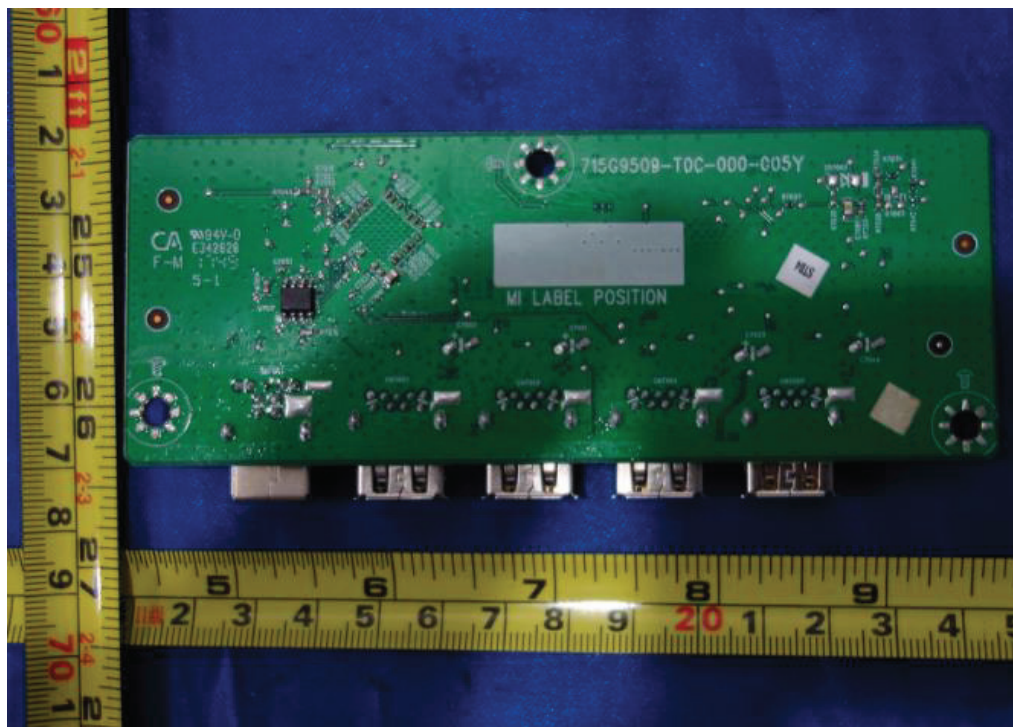


Figure 40. USB board 715G9509

Clause	Requirement + Test	Result - Remark	Verdict
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2.1.1.7	TABLE: discharge test			P
Condition	τ calculated (s)	τ measured (s)	$t_{u \rightarrow 0V}$ (s)	Comments
Tested with power board 715G7610				
System on (with fuse in, L-N)	0.99	0.67	--	$V_o=375V_{pk}$, 37% of $V_o=138V$. Input voltage: 264V/60Hz.
Supplementary information: Overall capacity: C9901=0.33uF; Discharge resistor: R9901=R9902=R9903=1M Ω .				

2.4.2	TABLE: limited current circuit measurement					P
Location	Voltage (V)	Current (mA)	Freq. (kHz)	Limit (mA)	Comments	
Tested with power board 715G7610						
C9902	10	5	20	14	--	
Supplementary information: See table 1.5.1 for capacity. Input Voltage is 264Vac, 60Hz.						

2.6.3.4	TABLE: ground continue test		P
Location		Resistance measured (mΩ)	Comments
Tested with power board 715G7300			
PE terminal of AC inlet to internal metal enclosure		4	Test with 32A, 2 minutes
PE terminal of AC inlet to internal metal enclosure		4	Test with 40A, 2 minutes
PE terminal of AC inlet to C902 trace		4	Test with 32A, 2 minutes
PE terminal of AC inlet to C902 trace		4	Test with 40A, 2 minutes
PE terminal of AC inlet to C903 trace		4	Test with 32A, 2 minutes
PE terminal of AC inlet to C903 trace		4	Test with 40A, 2 minutes
Tested with power board 715G7610			
PE terminal of AC inlet to internal metal enclosure		6	Test with 32A, 2 minutes
PE terminal of AC inlet to internal metal enclosure		6	Test with 40A, 2 minutes
PE terminal of AC inlet to C9903 trace		6	Test with 32A, 2 minutes
PE terminal of AC inlet to C9903 trace		6	Test with 40A, 2 minutes

Clause	Requirement + Test	Result - Remark	Verdict
PE terminal of AC inlet to C9904 trace	6	Test with 32A, 2 minutes	
PE terminal of AC inlet to C9904 trace	6	Test with 40A, 2 minutes	
Supplementary information:			

4.6.1, 4.6.2	Table: enclosure openings		P
Location	Size (mm)	Comments	
Internal metal chassis type A (metal thickness min.0.6mm except part under power board)			
a) at horizontal orientation; b) at vertical orientation			
a) Top b) Right	1) Numerous circle openings: Ø4.8mm. 2) One rectangle opening above main board: 70.0mm x 6.9mm; 3) Two rectangle openings: 17.9mm x 10.4mm.	1) Openings do not exceed 5mm in any dimension. No hazards. 2)-3) No hazardous part within vertical projection of 5° from the opening.	
Rear	Numerous circle openings: max. Ø4.0mm;	Openings do not exceed 5mm in any dimension. No hazards.	
a) Left (main board side) b) Top	No opening.	--	
a) Right (power board side) b) Bottom	No opening.	--	
a) Bottom b) Left	1) One circle opening Ø1.9mm near AC switch; 2) Numerous Ø1.72mm holes; spacing of holes (centre to centre): 5.0 mm; thickness of metal under power board: min.0.81mm.	Comply for fire enclosure, no hazards. Openings do not exceed 5mm in any dimension. No hazards.	
Internal metal chassis type B (metal thickness min.0.6mm except part under power board)			
Top	1) Numerous circle openings: Ø4.8mm. 2) One rectangle opening above main board: 70.0mm x 6.9mm; 3) Two rectangle openings: 17.9mm x 10.4mm.	1) Openings do not exceed 5mm in any dimension. No hazards. 2)-3) No hazardous part within vertical projection of 5° from the opening.	
Rear	1) Numerous circle openings: max. Ø4.0mm; 2) One rectangle opening near power board: 30.0mm x 50.0mm.	1) Openings do not exceed 5mm in any dimension. No hazards. 2) No hazardous part within vertical projection of 5° from the opening.	
Left (main board side)	No opening.	--	

Clause	Requirement + Test	Result - Remark	Verdict
Right (power board side)	One rectangle opening near power board: 30.0mm x 16.0mm.	No hazardous part within vertical projection of 5° from the opening.	
Bottom	1) One circle opening Ø1.9mm near AC switch; 2) Numerous Ø1.72mm holes; spacing of holes (centre to centre): 5.0 mm; thickness of metal under power board: min.0.81mm.	Comply for fire enclosure, no hazards.	
Internal metal chassis type C (metal thickness min.0.6mm except part under power board)			
Top	1) Numerous circle openings: Ø4.8mm. 2) One rectangle opening above main board: 70.0mm x 6.9mm; 3) Two rectangle openings: 17.9mm x 10.4mm.	1) Openings do not exceed 5mm in any dimension. No hazards. 2)-3) No hazardous part within vertical projection of 5° from the opening.	
Rear	1) Numerous circle openings: max. Ø4.0mm; 2) One rectangle opening near power board: 30.0mm x 50.0mm; 3) One rectangle opening near main board: 35.7mm x 21.5mm.	1) Openings do not exceed 5mm in any dimension. No hazards. 2)-3) No hazardous part within vertical projection of 5° from the opening.	
Left (main board side)	One rectangle opening near main board: 35.7mm x 15.0mm.	No hazardous part within vertical projection of 5° from the opening.	
Right (power board side)	One rectangle opening near power board: 30.0mm x 16.0mm.	No hazardous part within vertical projection of 5° from the opening.	
Bottom	1) One circle opening Ø1.9mm near AC switch; 2) Numerous Ø1.72mm holes; spacing of holes (centre to centre): 5.0 mm; thickness of metal under power board: min.0.81mm. 3) One rectangle opening under main board: 17.4mm x 10.6mm.	1)-2) Comply for fire enclosure, no hazards. 3) Main board is supplied by LPS, no required for fire enclosure.	

Clause	Requirement + Test	Result - Remark	Verdict
Internal metal chassis type D (metal thickness min.0.6mm except part under power board) a) at horizontal orientation; b) at vertical orientation			
a) Top b) Right	1) Numerous circle openings: Ø4.8mm. 2) One rectangle opening above main board: 70.0mm x 6.9mm; 3) Two rectangle openings: 17.9mm x 10.4mm.	1) Openings do not exceed 5mm in any dimension. No hazards. 2)-3) No hazardous part within vertical projection of 5° from the opening.	
Rear	1) Numerous circle openings: max. Ø4.0mm; 2) One rectangle opening near main board: 21.4mm x 35.4mm.	1) Openings do not exceed 5mm in any dimension. No hazards. 2) No hazardous part within vertical projection of 5° from the opening.	
a) Left (main board side) b) Top	One rectangle opening near main board: 14.0mm x 35.4mm.	No hazardous part within vertical projection of 5° from the opening.	
a) Right (power board side) b) Bottom	No opening.	--	
a) Bottom b) Left	1) One circle opening Ø1.9mm near AC switch; 2) Numerous Ø1.72mm holes; spacing of holes (centre to centre): 5.0 mm; thickness of metal under power board: min.0.81mm.	Comply for fire enclosure, no hazards. Openings do not exceed 5mm in any dimension. No hazards.	