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TEST REPORT
IEC 60601-1
Medical Electrical Equipment
Part 1: General requirements for basic safety and essential performance

Report Number. ..... :	**220201763SHA-001**
Date of issue ..... :	**2022-10-18** **Amendment 1: 2023-05-04** **Modification 1: 2023-09-18** **Modification 2: 2024-06-18** **Modification 3: 2026-08-11**
Total number of pages ..... :	74
Name of Testing Laboratory preparing the Report ..... :	Intertek Testing Services (Shanghai FTZ) Co., Ltd. Building No. 86, 1198 Qinzhou Road (North) Shanghai 200233 China
Applicant's name ..... :	GlobTek, Inc.
Address ..... :	186 Veterans Dr. Northvale, NJ 07647 USA
Test specification:	
Standard ..... :	IEC 60601-1:2005, IEC 60601-1:2005/AMD1:2012, IEC 60601-1:2005/AMD2:2020
Test procedure ..... :	CB Scheme
Non-standard test method ..... :	N/A
TRF template used ..... :	IECEE OD-2020-F1:2020, Ed.1.3
Test Report Form No. ..... :	IEC60601_1U
Test Report Form(s) Originator .... :	UL(US)
Master TRF ..... :	2022-05-13

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Test item description ..... :	Medical Power Supply
Trade Mark(s) ..... :	GlobTek, Inc.
Manufacturer ..... :	Same as applicant
Model/Type reference ..... :	GT*91099-***-**, GT*96600-***-**, GT*96600-*56***(Refer to Model differences table for details)
Ratings ..... :	GT*91099-***-**: Input: 1.5A, 100-240V~, 50-60Hz or 50/60Hz; Output: 5-48VDC, Max. 60W GT*96600-***-**: Input: 1.5A, 100-240V~, 50-60Hz or 50/60Hz; Output: 5-54VDC, Max. 65W GT*96600-*56***: Input: 2.0A, 100-240V~, 50-60Hz or 50/60Hz; Output: 56VDC, Max. 70W

Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):

☒	**CB Testing Laboratory:**	Intertek Testing Services (Shanghai FTZ) Co., Ltd.	
Testing location/ address.....:		Building No. 86, 1198 Qinzhou Road (North) 200233 Shanghai CHINA	
Tested by (name, function, signature).....:		Zihao Wan (Engineer)	Wan Zihao
Approved by (name, function, signature)...:		Larry Zhong (Mandated reviewer)	Larry Zhong
☐	**Testing procedure: CTF Stage 1:**		
Testing location/ address.....:			
Tested by (name, function, signature).....:			
Approved by (name, function, signature)...:			
☐	**Testing procedure: CTF Stage 2:**		
Testing location/ address.....:			
Tested by (name, function, signature).....:			
Witnessed by (name, function, signature) .:			
Approved by (name, function, signature)...:			
☐	**Testing procedure: CTF Stage 3:**		
☐	**Testing procedure: CTF Stage 4:**		
Testing location/ address.....:			
Tested by (name, function, signature).....:			
Witnessed by (name, function, signature) .:			

Approved by (name, function, signature)...:		
Supervised by (name, function, signature) :		

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

Summary of testing:

Tests performed (name of test and test clause):	**Testing location:**
Modification 3: 8.4.3 ME equipment intended to be connected to a power source by a plug 8.6.4 Impedance and current-carrying capability of protective earth connections	Intertek Testing Services (Shanghai FTZ) Co., Ltd. Building No. 86, 1198 Qinzhou Road (North) Shanghai 200233 China

Summary of compliance with National Differences (List of countries addressed):
None

☒ **The product fulfils the requirements of**
IEC 60601-1:2005, AMD1:2012, AMD2:2020
EN 60601-1:2006+A1:2013+A2:2021+A13:2024
CAN/CSA-C22.2 No. 60601-1:2014 Ed.3+A1+A2
AAMI 60601-1:2005 + AMD 1:2012
SN EN 60601-1:2006
JIS T 60601-1:2017

Statement concerning the uncertainty of the measurement systems used for the tests

☐ **Internal procedure used for type testing through which traceability of the measuring uncertainty has been established:**

Procedure number, issue date and title:
Calculations leading to the reported values are on file with the NCB and testing laboratory that conducted the testing.

☒ **Statement not required by the standard used for type testing**

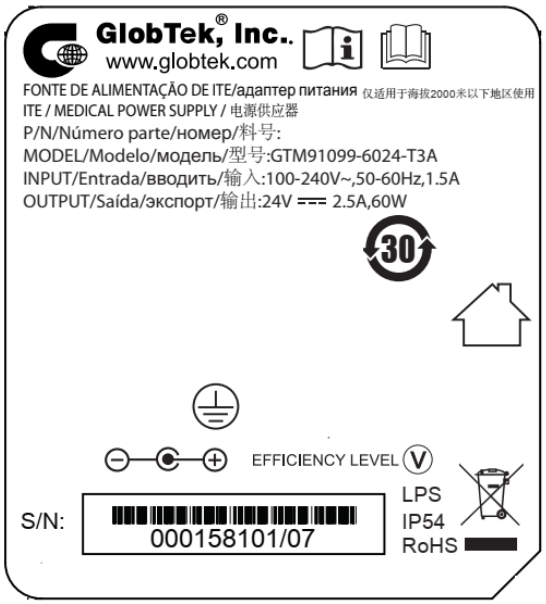
Copy of marking plate:

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.

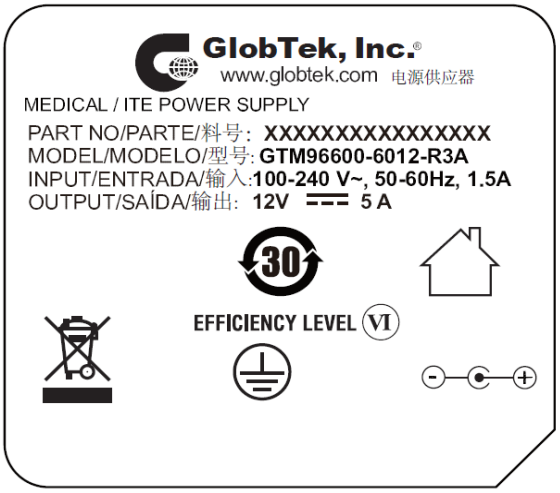
GT*91099-*-****

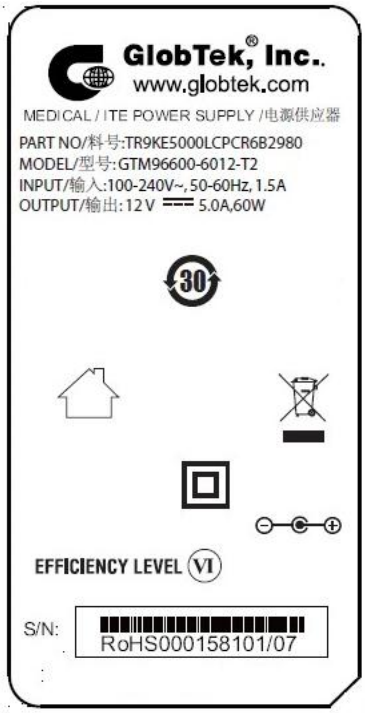




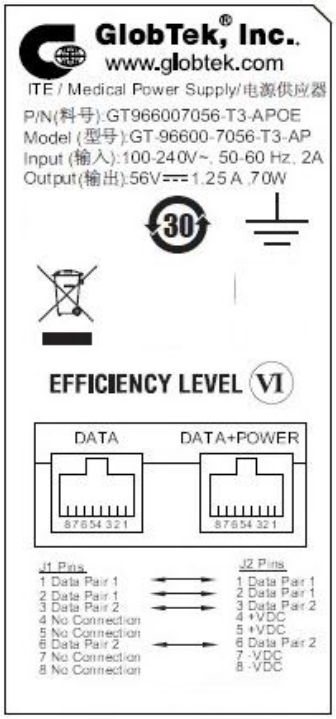


GT*96600-*-****





GT*96600-*56***



Test item particulars.....:	
Classification of installation and use.....:	~~transportable / portable / stationary / mobile / fixed / permanently installed / hand-held, body-worn for~~ power adapter model. Final evaluation in end product.
Supply Connection.....:	appliance coupler / non-detachable cord for power adapter model.
Device type (component/sub-assembly/ equipment/ system)……..:	Component
Intended use (Including type of patient, application location)……:	PSU (external power adapter or internal power supply board)
Mode of operation……:	Continuous
Accessories and detachable parts included……...:	None
Other options include……...:	None
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 was not evaluated for the requirement……...:	N/E (collateral standards only)
- test object does not meet the requirement.....:	F (Fail)
Abbreviations used in the report	
- normal condition……: N.C.	- single fault condition .....: S.F.C.
- means of Operator protection ……: MOOP	- means of Patient protection ....: MOPP
Testing.....:	
Date of receipt of test item .....:	2026-04-15
Date (s) of performance of tests.....:	2026-04-20 to 2026-05-30

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.

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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) ..... :	Factory 1 GlobTek, Inc. 186 Veterans Dr. Northvale, NJ 07647 USA Factory 2 GlobTek (Suzhou) Co., Ltd Building 4, No. 76, Jin Ling East Rd., Suzhou Industrial Park, Suzhou, JiangSu 215021, China

General product information and other remarks:

Product covered by this report is medical power supply module.

Desktop power supplies are provided with suitable external enclosure. The top and bottom parts of the enclosure are ultrasonic welded.

Open frame power supplies are without external enclosure. The external enclosure will be provided within the end product.

The products were tested to be suitable for connection to ≤ 16 A (IEC) and ≤ 20 A (USA) branch circuit in series. The unit is approved for TN mains star connections. The unit provides internally two fuses.
The power supplies are rated class I or class II or class II units may have an optional functional earth connection. Open frame and encapsulated class I power supplies shall be properly bonded to the main protective bonding termination in the end product.
All the types are designed for continuous operation.
For GTM96600 series, primary R16B, C10,R1,R3 secondary R21,R22,C13,R24,C18 may change or optional depends on output voltage, For GTM96600 series, L1 is a jump wire.
The following components were not equipped on Model GTM96600-6019-T3 (Class II with FE):
Components on Primary circuit: R16B, C10, R1, R3
Components on Secondary circuit: R21, R22, C13, R24, C18, D6, C11, C12, R23, U2
Note: The product GTM96600-6019-T3(P/N:TR9CZ3157LR13IMR6BF2) only can use the Triple-insulated wire THL-F-xx or THL-F-SB-xx from HOI LUEN ELECTRICAL MFR CO LTD.
Model similarity:

GT*91099-***-** and GT*96600-***-** series
The 1st "*" part can be 'M' or '-' or 'H' for market identification and not related to safety.
The 2nd "*" denotes the rated output wattage designation, which can be "01" to "65", with interval of 1.
When model= GT*91099-***-**,
The 3rd "*" denotes the standard rated output voltage designation, which can be"09","15","24", "48";
The 4th "*"is optional deviation, subtracted from standard output voltage, which can be "-0.01" to "-23.9" with interval of 0.01, or blank to indicate no voltage different.
The 3rd"*" and 4th "*" together denote the output voltage, with a range of 5–48 volts.
When model=GT*96600-***-**,
The 3rd"*" denote the standard rated output voltage designation, which can be "05" to "54" or "5.0" to

"54.0" in 0.01V increments.
The 4th"*"=Blank
The 5th"*" =T2 means desktop class II with C8 AC inlet
=T2A means desktop class II with C18 AC inlet
=T3 means desktop class I or class II with functional earth with C14 AC inlet
=T3A means desktop class I or class II with functional earth with C6 AC inlet
=T2L means desktop class II with C8 AC inlet and housing with a DC jack
=T2AL means desktop class II with C18 AC inlet and housing with a DC jack
=T3L means desktop class I or class II with functional earth with C14 AC inlet and housing with a DC jack
=T3AL means desktop class I or class II with functional earth with C6 AC inlet and housing with a DC jack
=R2 means hybrid desktop housing class II with C8 AC inlet
=R3A means hybrid desktop housing class I or class II with functional earth with C6 AC inlet
=F means Open Frame class I or class II with functional earth
=FW means Open Frame class II
=P2 means Encapsulated class II
=P3 means Encapsulated class I or class II with functional earth
=TP means desktop class II with power supply cord with plug
=TP3 means desktop class I or class II with functional earth with power supply cord with plug
=TW means desktop class II with input wire without plug
=TW3 means desktop class I or class II with functional earth with input wire without plug
The last * denote any six character = 0-9 or A-Z or ()[] or – or blank for marketing purposes.
For details please refer to model list table.

GT*96600-*56***
The 1st "*" part can be 'M' or '-' or 'H' for market identification and not related to safety.
The 2nd "*" denotes the rated output wattage designation, which can be "01" to "70", with interval of 1.
The 3rd "*" =-T2 means desktop class II with C8 AC inlet
=-T2A means desktop class II with C18 AC inlet
=-T3 means desktop class I or class II with functional earth with C14 AC inlet
=-T3A means desktop class I or class II with functional earth with C6 AC inlet
The 4th "*" = -AP means standing for Active POE with baby board.
= -PP means standing for Passive POE without baby board
= -SP means standing for Simple POE without baby board
The last * denote any six character = 0-9 or A-Z or ()[] or – or blank for marketing purposes.

GT*91099-***-**: Input: 1.5A, 100-240V~, 50-60Hz or 50/60Hz;
Output: 5-48VDC, Max. 60W
GT*96600-***-**: Input: 1.5A, 100-240V~, 50-60Hz or 50/60Hz;
Output: 5-54VDC, Max. 65W
GT*96600-*56***: Input: 1.5A, 100-240V~, 50-60Hz or 50/60Hz;
Output: 56VDC, Max. 70W

Alternate Rating:
For models GTM96600-2005-R2 / GTM96600-2005-R3A: output 5VDC, 4.0A at Tma=70 ℃;
For models GTM96600-2412-R2 / GTM96600-2412-R3A: output 12VDC, 2.0A at Tma=70 ℃;
For models GTM96600-2436-R2 / GTM96600-2436-R3A: output 36VDC, 0.66A at Tma=70 ℃;

For models GTM96600-2448-R2 / GTM96600-2448-R3A: output 48VDC, 0.5A at Tma=70 ℃;
For models GTM96600-2454-R2 / GTM96600-2454-R3A: output 54VDC, 0.44A at Tma=70 ℃;
For models GT-96600-7056-T3-AP/ GT-96600-7056-T2-AP: output 56VDC, 1.25A at Tma=40 ℃;

Model list:

GT*96600-**-T2/T2A/T3/T3A/T2L/T2AL/T3L/T3AL/P2/P3/TP/TP3/TW/TW3* Desktop models or Encapsulated

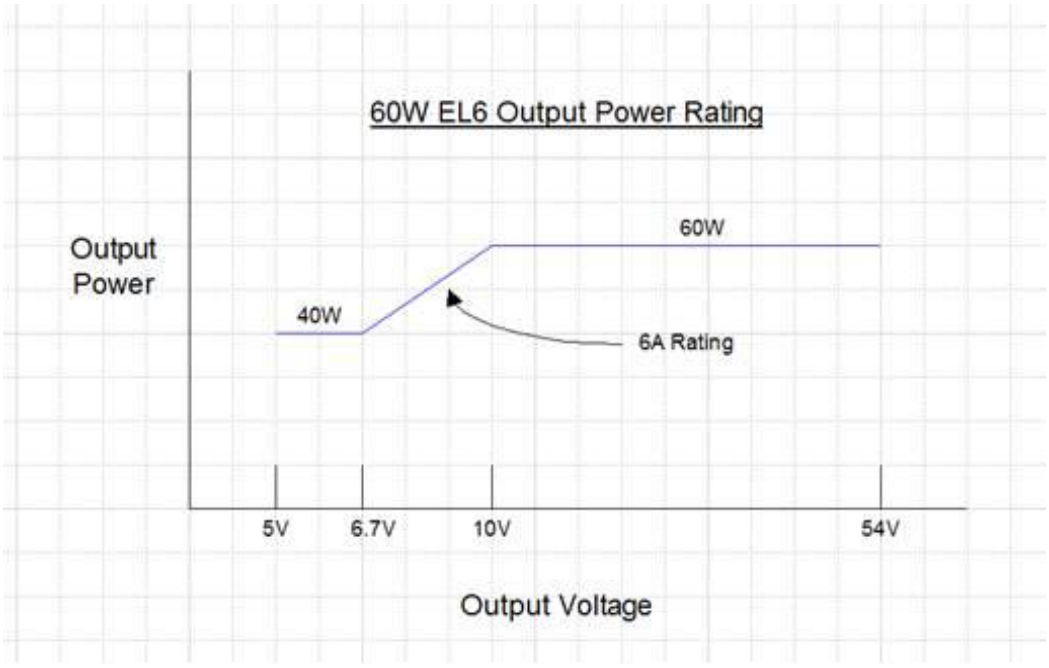
Model	Output Voltage	Max. output current	Max. output power
GT*96600-**-T2/T2A/T3/T3A/T2L/T2AL/T3L/T3AL/P2/P3/TP/TP3/TW/TW3*	5-6.7VDC	8A	40W
GT*96600-**-T2/T2A/T3/T3A/T2L/T2AL/T3L/T3AL/P2/P3/TP/TP3/TW/TW3*	6.8-11VDC	6A	60W
GT*96600-**-T2/T2A/T3/T3A/T2L/T2AL/T3L/T3AL/P2/P3/TP/TP3/TW/TW3*	11.1-54VDC	5.42A	65W

GT*96600-*56-T2/T2A/T3/T3A-AP/PP/SP* Desktop models

GT*96600-*56-T2/T2A/T3/T3A-AP/PP/SP*	56VDC	1.25A	70W

GT*96600-**-R2/R3A*External/Hybrid models

Model	Output Voltage	Max. output current	Max. output power
GT*96600-**-R2/R3A	5-6.7VDC	8A	40W
GT*96600-**-R2/R3A	6.8-11VDC	6A	60W
GT*96600-**-R2/R3A	11.1-54VDC	5.42A	65W



GT*91099-*-T2/T2A/T3/T3A/F/FW/P2/P3*External/Hybrid desktop or Open Frame or Encapsulated**

Model	Output Voltage	Max. output current	Max. output power
GT*91099-*09*-T2/T2A/T3/T3A/F/FW/P2/P3*	5-9VDC	6A	50W
GT*91099-*15*- T2/T2A/T3/T3A/F/FW/P2/P3*	9.1-15VDC	6A	60W
GT*91099-*24*- T2/T2A/T3/T3A/F/FW/P2/P3*	15.1-24VDC	4A	60W
GT*91099-*48*- T2/T2A/T3/T3A/F/FW/P2/P3*	24.1-48VDC	2.5A	60W

Note: For 91099series, T2A model use C8 inlet.

Technical Considerations:

Scope of Power Supply evaluation defers the following clauses to be determined as part of the end product investigation:

- Clause 7.5 (Safety Signs),
- Clause 7.9 (Accompanying Documents),
- Clause 9 (ME Hazard), except 9.1 and 9.3 are evaluated,
- Clause 10 (Radiation),
- Clause 11.7 (Biocompatibility),
- Clause 14 (PEMS),
- Clause 16 (ME Systems)
- Clause 17 (EMC)
- Usability was excluded from this investigation.

Note: This report is not valid unless used in conjunction with the original report.
Determination of the test conclusion is based on IEC Guide 115 in consideration of measurement uncertainty.

Amendment 1:
The original test report ref. No. 220201763HA-001, dated 2022-10-18; issued by Intertek Testing Services Shanghai, was amendment on 2023-05-04 , include the following changes and/or additions:
1. Corrected the national difference from “EN 60601-1:2006+A1: 2013” to “EN 60601-1:2006+A2: 2021”, From “AAMI 60601-1:2005 + AMD 1:2012” to “AAMI ES60601-1:2005+A1:2012+A2:2021” ,from “CAN/CSA-C22.2 No. 60601-1:14” to “CAN/CSA-C22.2 No. 60601-1:2014 Ed.3+A2”.

After review, no test need be done.

Modification 1:
The original test report ref. No. 220201763HA-001, dated 2022-10-18; issued by Intertek Testing Services Shanghai, was modified on 2023-09-18, include the following changes and/or additions:
1. Added the Annex L evaluation for Triple-insulated wire of the type TRW (B) Serie(s).
2. Added the alternative Triple-insulated wire from HOI LUEN ELECTRICAL MFR CO LTD to the critical component list.

After review, the test for clause 8.8.3 and Annex L need be done.

Modification 2:
The original test report ref. No. 220201763HA-001, dated 2022-10-18; issued by Intertek Testing Services Shanghai, was modified on 2024-06-18, include the following changes and/or additions:

1. Added alternative PCB, Varistor and Bleeder Resistor.
2. Updated the EN standard to the latest version.
3. Corrected component in critical components list.

After review, no test need be done, no clause that need to be reassessed.

Modification 3:
The original test report ref. No. 220201763SHA-001, dated 2022-10-18 has modification on 2026-08-11 to include the following changes:
1. Added the Appendix evaluation for plug portion of R-EU-2, R-EU-3, R-NA-2, R-NA-3, R-SAA-2, R-SAA-3, R-UK-2, R-UK-3.
2. Updated Critical components list.
3. Added the additional test of plug portion connected to Medical Power Supply.

After review, the tests for clause 8.4.3 & 8.6.4 and Appendix was done.

8.6.4	TABLE: Impedance and current-carrying capability of PROTECTIVE EARTH CONNECTIONS			P
Type of ME EQUIPMENT & impedance measured between parts	**Test current (A) /Duration (s)**	**Voltage drop measured between parts (V)**	**Maximum calculated impedance (mΩ)**	**Maximum allowable impedance (mΩ)**
GT*91099-***-**				
With R-EU-3				
ME EQUIPMENT with an APPLIANCE INLET, impedance between earth pin in the APPLIANCE INLET and a PROTECTIVELY EARTHED part	**25A/10S**	**1.05**	**42**	**100mΩ**
With R-UK-3				
ME EQUIPMENT with an APPLIANCE INLET, impedance between earth pin in the APPLIANCE INLET and a PROTECTIVELY EARTHED part	**25A/10S**	**0.95**	**38**	**100mΩ**
With R-SAA-3				
ME EQUIPMENT with an APPLIANCE INLET, impedance between earth pin in the APPLIANCE INLET and a PROTECTIVELY EARTHED part	**25A/10S**	**0.85**	**34**	**100mΩ**
With R-NA-3				
ME EQUIPMENT with an APPLIANCE INLET, impedance between earth pin in the APPLIANCE INLET and a PROTECTIVELY EARTHED part	**25A/10S**	**0.8**	**32**	**100mΩ**
GT*96600-***-**				
With R-EU-3				
ME EQUIPMENT with an APPLIANCE INLET, impedance between earth pin in the APPLIANCE INLET and a PROTECTIVELY EARTHED part	**25A/10S**	**0.675**	**27**	**100mΩ**
With R-UK-3				
ME EQUIPMENT with an APPLIANCE INLET, impedance between earth pin in the APPLIANCE INLET and a PROTECTIVELY EARTHED part	**25A/10S**	**0.825**	**33**	**100mΩ**
With R-SAA-3				
ME EQUIPMENT with an APPLIANCE INLET, impedance between earth pin in the APPLIANCE INLET and a PROTECTIVELY EARTHED part	**25A/10S**	**0.875**	**35**	**100mΩ**
With R-NA-3				

ME EQUIPMENT with an APPLIANCE INLET, impedance between earth pin in the APPLIANCE INLET and a PROTECTIVELY EARTHED part	**25A/10S**	**1.0**	**40**	**100mΩ**

Supplementary information:

PERMANENTLY INSTALLED ME EQUIPMENT, impedance between PROTECTIVE EARTH TERMINAL and a PROTECTIVELY EARTHED part - Limit 100 mΩME EQUIPMENT with an APPLIANCE INLET, impedance between earth pin in the APPLIANCE INLET and a PROTECTIVELY EARTHED part - Limit 100 mΩ
ME EQUIPMENT with an APPLIANCE INLET, impedance between earth pin in the protective earth pin on the DETACHABLE POWER SUPPLY CORD and a PROTECTIVELY EARTHED part - Limit 200 mΩ
ME EQUIPMENT with a non-DETACHABLE POWER SUPPLY CORD, impedance between the protective earth pin in the MAINS PLUG and a PROTECTIVELY EARTHED part - Limit 200 mΩ

8.4.3	**TABLE: ME EQUIPMENT for connection to a power source by a plug - measurement of voltage or calculation of stored charge 1 s after disconnection of plug from mains supply**									**P**
GT*91099-***-** with R-EU-3										
Maximum allowable voltage (V) ..... :										**60**
Voltage measured (V)										
Voltage Measured Between:	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
Plug pins 1 and 2	12	4	8	0	4	12	8	0	0	4
Plug pin 1 and plug earth pin	8	4	4	4	0	12	4	4	0	8
Plug pin 2 and plug earth pin	0	0	0	0	0	0	0	0	0	0
Plug pin 1 and enclosure	0	0	0	0	0	0	0	0	0	0
Plug pin 2 and enclosure	0	0	0	0	0	0	0	0	0	0
Maximum allowable stored charge when measured voltage exceeded 60 v (μc) .....:										**45**
Calculated stored charge (μc)										
Voltage Measured Between:	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
Plug pins 1 and 2	-	-	-	-	-	-	-	-	-	-
Plug pin 1 and plug earth pin	-	-	-	-	-	-	-	-	-	-
Plug pin 2 and plug earth pin	-	-	-	-	-	-	-	-	-	-
Plug pin 1 and enclosure	-	-	-	-	-	-	-	-	-	-
Plug pin 2 and enclosure	-	-	-	-	-	-	-	-	-	-
Supplementary information:										
GT*91099-***-** with R-EU-2										
Maximum allowable voltage (V) ..... :										**60**
Voltage measured (V)										
Voltage Measured Between:	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
Plug pins 1 and 2	12	4	4	4	0	12	8	4	0	4
Plug pin 1 and plug earth pin	0	0	0	0	0	0	0	0	0	0
Plug pin 2 and plug earth pin	0	0	0	0	0	0	0	0	0	0
Plug pin 1 and enclosure	0	0	0	0	0	0	0	0	0	0
Plug pin 2 and enclosure	0	0	0	0	0	0	0	0	0	0
Maximum allowable stored charge when measured voltage exceeded 60 v (μc) .....:										**45**

Calculated stored charge (μc)										
Voltage Measured Between:	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
Plug pins 1 and 2	-	-	-	-	-	-	-	-	-	-
Plug pin 1 and plug earth pin	-	-	-	-	-	-	-	-	-	-
Plug pin 2 and plug earth pin	-	-	-	-	-	-	-	-	-	-
Plug pin 1 and enclosure	-	-	-	-	-	-	-	-	-	-
Plug pin 2 and enclosure	-	-	-	-	-	-	-	-	-	-
Supplementary information:										
GT*91099-***-** with R-UK-3										
Maximum allowable voltage (V) ..... :	**60**									
Voltage measured (V)										
Voltage Measured Between:	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
Plug pins 1 and 2	4	4	12	12	8	12	8	4	0	4
Plug pin 1 and plug earth pin	4	8	12	8	12	4	4	8	12	8
Plug pin 2 and plug earth pin	0	0	0	0	0	0	0	0	0	0
Plug pin 1 and enclosure	0	0	0	0	0	0	0	0	0	0
Plug pin 2 and enclosure	0	0	0	0	0	0	0	0	0	0
Maximum allowable stored charge when measured voltage exceeded 60 v (μc) .....:	**45**									
Calculated stored charge (μc)										
Voltage Measured Between:	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
Plug pins 1 and 2	-	-	-	-	-	-	-	-	-	-
Plug pin 1 and plug earth pin	-	-	-	-	-	-	-	-	-	-
Plug pin 2 and plug earth pin	-	-	-	-	-	-	-	-	-	-
Plug pin 1 and enclosure	-	-	-	-	-	-	-	-	-	-
Plug pin 2 and enclosure	-	-	-	-	-	-	-	-	-	-
Supplementary information:										
GT*91099-***-** with R-UK-2										
Maximum allowable voltage (V) ..... :	**60**									
Voltage measured (V)										
Voltage Measured Between:	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
Plug pins 1 and 2	12	4	4	8	12	4	8	8	4	4

Plug pin 1 and plug earth pin	0	0	0	0	0	0	0	0	0	0
Plug pin 2 and plug earth pin	0	0	0	0	0	0	0	0	0	0
Plug pin 1 and enclosure	0	0	0	0	0	0	0	0	0	0
Plug pin 2 and enclosure	0	0	0	0	0	0	0	0	0	0
Maximum allowable stored charge when measured voltage exceeded 60 v (μc) .....:	**45**									
Calculated stored charge (μc)										
Voltage Measured Between:	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
Plug pins 1 and 2	-	-	-	-	-	-	-	-	-	-
Plug pin 1 and plug earth pin	-	-	-	-	-	-	-	-	-	-
Plug pin 2 and plug earth pin	-	-	-	-	-	-	-	-	-	-
Plug pin 1 and enclosure	-	-	-	-	-	-	-	-	-	-
Plug pin 2 and enclosure	-	-	-	-	-	-	-	-	-	-
Supplementary information:										
GT*91099-***-** with R-SAA-3										
Maximum allowable voltage (V) ..... :	**60**									
Voltage measured (V)										
Voltage Measured Between:	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
Plug pins 1 and 2	12	4	4	4	0	8	8	4	0	4
Plug pin 1 and plug earth pin	4	4	12	8	4	4	0	4	0	8
Plug pin 2 and plug earth pin	0	0	0	0	0	0	0	0	0	0
Plug pin 1 and enclosure	0	0	0	0	0	0	0	0	0	0
Plug pin 2 and enclosure	0	0	0	0	0	0	0	0	0	0
Maximum allowable stored charge when measured voltage exceeded 60 v (μc) .....:	**45**									
Calculated stored charge (μc)										
Voltage Measured Between:	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
Plug pins 1 and 2	-	-	-	-	-	-	-	-	-	-
Plug pin 1 and plug earth pin	-	-	-	-	-	-	-	-	-	-
Plug pin 2 and plug earth pin	-	-	-	-	-	-	-	-	-	-
Plug pin 1 and enclosure	-	-	-	-	-	-	-	-	-	-
Plug pin 2 and enclosure	-	-	-	-	-	-	-	-	-	-
Supplementary information:										

GT*91099-***-** with R-SAA-2										
Maximum allowable voltage (V) ..... :	**60**									
Voltage measured (V)										
Voltage Measured Between:	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
Plug pins 1 and 2	4	4	12	0	0	4	8	12	0	4
Plug pin 1 and plug earth pin	0	0	0	0	0	0	0	0	0	0
Plug pin 2 and plug earth pin	0	0	0	0	0	0	0	0	0	0
Plug pin 1 and enclosure	0	0	0	0	0	0	0	0	0	0
Plug pin 2 and enclosure	0	0	0	0	0	0	0	0	0	0
Maximum allowable stored charge when measured voltage exceeded 60 v (μc) .....:	**45**									
Calculated stored charge (μc)										
Voltage Measured Between:	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
Plug pins 1 and 2	-	-	-	-	-	-	-	-	-	-
Plug pin 1 and plug earth pin	-	-	-	-	-	-	-	-	-	-
Plug pin 2 and plug earth pin	-	-	-	-	-	-	-	-	-	-
Plug pin 1 and enclosure	-	-	-	-	-	-	-	-	-	-
Plug pin 2 and enclosure	-	-	-	-	-	-	-	-	-	-
Supplementary information:										
GT*91099-***-** with R-NA-3										
Maximum allowable voltage (V) ..... :	**60**									
Voltage measured (V)										
Voltage Measured Between:	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
Plug pins 1 and 2	0	12	4	4	0	0	8	4	0	4
Plug pin 1 and plug earth pin	4	4	4	8	12	12	0	0	0	8
Plug pin 2 and plug earth pin	0	0	0	0	0	0	0	0	0	0
Plug pin 1 and enclosure	0	0	0	0	0	0	0	0	0	0
Plug pin 2 and enclosure	0	0	0	0	0	0	0	0	0	0
Maximum allowable stored charge when measured voltage exceeded 60 v (μc) .....:	**45**									
Calculated stored charge (μc)										
Voltage Measured Between:	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
Plug pins 1 and 2	-	-	-	-	-	-	-	-	-	-

Plug pin 1 and plug earth pin	-	-	-	-	-	-	-	-	-	-
Plug pin 2 and plug earth pin	-	-	-	-	-	-	-	-	-	-
Plug pin 1 and enclosure	-	-	-	-	-	-	-	-	-	-
Plug pin 2 and enclosure	-	-	-	-	-	-	-	-	-	-
Supplementary information:										
GT*91099-***-** with with R-NA-2										
Maximum allowable voltage (V) ..... :	**60**									
Voltage measured (V)										
Voltage Measured Between:	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
Plug pins 1 and 2	4	8	8	12	4	4	8	12	0	4
Plug pin 1 and plug earth pin	0	0	0	0	0	0	0	0	0	0
Plug pin 2 and plug earth pin	0	0	0	0	0	0	0	0	0	0
Plug pin 1 and enclosure	0	0	0	0	0	0	0	0	0	0
Plug pin 2 and enclosure	0	0	0	0	0	0	0	0	0	0
Maximum allowable stored charge when measured voltage exceeded 60 v (μc) .....:	**45**									
Calculated stored charge (μc)										
Voltage Measured Between:	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
Plug pins 1 and 2	-	-	-	-	-	-	-	-	-	-
Plug pin 1 and plug earth pin	-	-	-	-	-	-	-	-	-	-
Plug pin 2 and plug earth pin	-	-	-	-	-	-	-	-	-	-
Plug pin 1 and enclosure	-	-	-	-	-	-	-	-	-	-
Plug pin 2 and enclosure	-	-	-	-	-	-	-	-	-	-
Supplementary information:										
GT*96600-***-** with R-EU-3										
Maximum allowable voltage (V) ..... :	**60**									
Voltage measured (V)										
Voltage Measured Between:	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
Plug pins 1 and 2	4	4	0	0	0	4	4	12	0	4
Plug pin 1 and plug earth pin	4	8	4	12	0	4	8	12	0	8
Plug pin 2 and plug earth pin	0	0	0	0	0	0	0	0	0	0
Plug pin 1 and enclosure	0	0	0	0	0	0	0	0	0	0

Plug pin 2 and enclosure	0	0	0	0	0	0	0	0	0	0
Maximum allowable stored charge when measured voltage exceeded 60 v (μc) .....:	**45**									
Calculated stored charge (μc)										
Voltage Measured Between:	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
Plug pins 1 and 2	-	-	-	-	-	-	-	-	-	-
Plug pin 1 and plug earth pin	-	-	-	-	-	-	-	-	-	-
Plug pin 2 and plug earth pin	-	-	-	-	-	-	-	-	-	-
Plug pin 1 and enclosure	-	-	-	-	-	-	-	-	-	-
Plug pin 2 and enclosure	-	-	-	-	-	-	-	-	-	-
Supplementary information:										
GT*96600-***-** with R-EU-2										
Maximum allowable voltage (V) ..... :	**60**									
Voltage measured (V)										
Voltage Measured Between:	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
Plug pins 1 and 2	12	4	4	8	4	4	12	8	0	4
Plug pin 1 and plug earth pin	0	0	0	0	0	0	0	0	0	0
Plug pin 2 and plug earth pin	0	0	0	0	0	0	0	0	0	0
Plug pin 1 and enclosure	0	0	0	0	0	0	0	0	0	0
Plug pin 2 and enclosure	0	0	0	0	0	0	0	0	0	0
Maximum allowable stored charge when measured voltage exceeded 60 v (μc) .....:	**45**									
Calculated stored charge (μc)										
Voltage Measured Between:	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
Plug pins 1 and 2	-	-	-	-	-	-	-	-	-	-
Plug pin 1 and plug earth pin	-	-	-	-	-	-	-	-	-	-
Plug pin 2 and plug earth pin	-	-	-	-	-	-	-	-	-	-
Plug pin 1 and enclosure	-	-	-	-	-	-	-	-	-	-
Plug pin 2 and enclosure	-	-	-	-	-	-	-	-	-	-
Supplementary information:										
GT*96600-***-** with R-UK-3										
Maximum allowable voltage (V) ..... :	**60**									
Voltage measured (V)										

Voltage Measured Between:	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
Plug pins 1 and 2	0	12	12	4	4	8	12	0	12	4
Plug pin 1 and plug earth pin	4	4	8	12	4	4	0	4	0	8
Plug pin 2 and plug earth pin	0	0	0	0	0	0	0	0	0	0
Plug pin 1 and enclosure	0	0	0	0	0	0	0	0	0	0
Plug pin 2 and enclosure	0	0	0	0	0	0	0	0	0	0
Maximum allowable stored charge when measured voltage exceeded 60 v (μc) .....:	**45**									
Calculated stored charge (μc)										
Voltage Measured Between:	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
Plug pins 1 and 2	-	-	-	-	-	-	-	-	-	-
Plug pin 1 and plug earth pin	-	-	-	-	-	-	-	-	-	-
Plug pin 2 and plug earth pin	-	-	-	-	-	-	-	-	-	-
Plug pin 1 and enclosure	-	-	-	-	-	-	-	-	-	-
Plug pin 2 and enclosure	-	-	-	-	-	-	-	-	-	-
Supplementary information:										
GT*96600-***-** with R-UK-2										
Maximum allowable voltage (V) ..... :	**60**									
Voltage measured (V)										
Voltage Measured Between:	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
Plug pins 1 and 2	12	4	4	0	8	4	8	0	0	4
Plug pin 1 and plug earth pin	8	4	0	8	12	12	0	4	0	8
Plug pin 2 and plug earth pin	0	0	0	0	0	0	0	0	0	0
Plug pin 1 and enclosure	0	0	0	0	0	0	0	0	0	0
Plug pin 2 and enclosure	0	0	0	0	0	0	0	0	0	0
Maximum allowable stored charge when measured voltage exceeded 60 v (μc) .....:	**45**									
Calculated stored charge (μc)										
Voltage Measured Between:	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
Plug pins 1 and 2	-	-	-	-	-	-	-	-	-	-
Plug pin 1 and plug earth pin	-	-	-	-	-	-	-	-	-	-
Plug pin 2 and plug earth pin	-	-	-	-	-	-	-	-	-	-
Plug pin 1 and enclosure	-	-	-	-	-	-	-	-	-	-

Plug pin 2 and enclosure	-	-	-	-	-	-	-	-	-	-
Supplementary information:										
GT*96600-***-** with R-SAA-3										
Maximum allowable voltage (V) ..... :	**60**									
Voltage measured (V)										
Voltage Measured Between:	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
Plug pins 1 and 2	12	0	8	0	4	0	8	0	0	12
Plug pin 1 and plug earth pin	8	4	4	8	12	12	8	0	0	8
Plug pin 2 and plug earth pin	0	0	0	0	0	0	0	0	0	0
Plug pin 1 and enclosure	0	0	0	0	0	0	0	0	0	0
Plug pin 2 and enclosure	0	0	0	0	0	0	0	0	0	0
Maximum allowable stored charge when measured voltage exceeded 60 v (μc) .....:	**45**									
Calculated stored charge (μc)										
Voltage Measured Between:	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
Plug pins 1 and 2	-	-	-	-	-	-	-	-	-	-
Plug pin 1 and plug earth pin	-	-	-	-	-	-	-	-	-	-
Plug pin 2 and plug earth pin	-	-	-	-	-	-	-	-	-	-
Plug pin 1 and enclosure	-	-	-	-	-	-	-	-	-	-
Plug pin 2 and enclosure	-	-	-	-	-	-	-	-	-	-
Supplementary information:										
GT*96600-***-** with R-SAA-2										
Maximum allowable voltage (V) ..... :	**60**									
Voltage measured (V)										
Voltage Measured Between:	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
Plug pins 1 and 2	4	12	4	4	8	12	0	0	0	4
Plug pin 1 and plug earth pin	0	0	0	0	0	0	0	0	0	0
Plug pin 2 and plug earth pin	0	0	0	0	0	0	0	0	0	0
Plug pin 1 and enclosure	0	0	0	0	0	0	0	0	0	0
Plug pin 2 and enclosure	0	0	0	0	0	0	0	0	0	0
Maximum allowable stored charge when measured voltage exceeded 60 v (μc) .....:	**45**									
Calculated stored charge (μc)										

Voltage Measured Between:	1	2	3	4	5	6	7	8	9	10
Plug pins 1 and 2	-	-	-	-	-	-	-	-	-	-
Plug pin 1 and plug earth pin	-	-	-	-	-	-	-	-	-	-
Plug pin 2 and plug earth pin	-	-	-	-	-	-	-	-	-	-
Plug pin 1 and enclosure	-	-	-	-	-	-	-	-	-	-
Plug pin 2 and enclosure	-	-	-	-	-	-	-	-	-	-
Supplementary information:										
GT*96600-***-** with R-NA-3										
Maximum allowable voltage (V) ..... :	60									
Voltage measured (V)										
Voltage Measured Between:	1	2	3	4	5	6	7	8	9	10
Plug pins 1 and 2	12	4	4	0	4	0	8	0	0	4
Plug pin 1 and plug earth pin	8	4	0	0	12	4	8	4	0	8
Plug pin 2 and plug earth pin	0	0	0	0	0	0	0	0	0	0
Plug pin 1 and enclosure	0	0	0	0	0	0	0	0	0	0
Plug pin 2 and enclosure	0	0	0	0	0	0	0	0	0	0
Maximum allowable stored charge when measured voltage exceeded 60 v (μc) .....:	45									
Calculated stored charge (μc)										
Voltage Measured Between:	1	2	3	4	5	6	7	8	9	10
Plug pins 1 and 2	-	-	-	-	-	-	-	-	-	-
Plug pin 1 and plug earth pin	-	-	-	-	-	-	-	-	-	-
Plug pin 2 and plug earth pin	-	-	-	-	-	-	-	-	-	-
Plug pin 1 and enclosure	-	-	-	-	-	-	-	-	-	-
Plug pin 2 and enclosure	-	-	-	-	-	-	-	-	-	-
Supplementary information:										
GT*96600-***-** with R-NA-2										
Maximum allowable voltage (V) ..... :	60									
Voltage measured (V)										
Voltage Measured Between:	1	2	3	4	5	6	7	8	9	10
Plug pins 1 and 2	12	4	4	0	0	12	4	0	8	4
Plug pin 1 and plug earth pin	0	0	0	0	0	0	0	0	0	0

Plug pin 2 and plug earth pin	0	0	0	0	0	0	0	0	0	0
Plug pin 1 and enclosure	0	0	0	0	0	0	0	0	0	0
Plug pin 2 and enclosure	0	0	0	0	0	0	0	0	0	0
Maximum allowable stored charge when measured voltage exceeded 60 v (μc) .....:	**45**									
Calculated stored charge (μc)										
Voltage Measured Between:	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
Plug pins 1 and 2	-	-	-	-	-	-	-	-	-	-
Plug pin 1 and plug earth pin	-	-	-	-	-	-	-	-	-	-
Plug pin 2 and plug earth pin	-	-	-	-	-	-	-	-	-	-
Plug pin 1 and enclosure	-	-	-	-	-	-	-	-	-	-
Plug pin 2 and enclosure	-	-	-	-	-	-	-	-	-	-
Supplementary information:										

8.10	TABLE: Critical components information				P
Object / part No.	**Manufacturer/ trademark**	**Type / model**	**Technical data**	**Standard**	**Mark(s) of conformity[1])**
PCB	WALEX ELECTRONIC (WUXI) CO LTD	T2 T2A T2B T4	Min. 1,6 mm thickness, min. V-0, 130°C	UL 796	UL E154355
Alt. use	SHANGHAI H-FAST ELECTRONIC CO LTD	411001 211001	Min. 1,6 mm thickness, min. V-0, 130°C	UL 796	UL E337862
Alt. use	DONGGUAN HE TONG ELECTRONICS CO LTD	CEM1 2V0 FR4	Min. 1,6 mm thickness, min. V-0, 130°C	UL 796	UL E243157
Alt. use	DAFENG AREX ELECTRONICS TECHNOLOGY COLTD	02V0 03V0 04V0	Min. 1,6 mm thickness, min. V-0, 130°C	UL 796	UL E186016
Alt. use	BRITE PLUS ELECTRONICS (SUZHOU) CO LTD	DKV0-3A DGV0-3A	Min. 1,6 mm thickness, min. V-0, 130°C	UL 796	UL E177671
Alt. use	SHENZHEN TONGCHUANGXIN ELECTRONICS CO LTD	TCX	Min. 1,6 mm thickness, min. V-0, 130°C	UL 796	UL E250336
Alt.	Interchangeable	Interchangeable	Min. 1,6 mm thickness, min. V-0, 130°C	UL 796	UL appreoved
Fuse (FS1,FS2 or F1, F2) (FS2 or F2 is optional) (FS1, FS2 for GT*91099 series, F1, F2 for GT*96600 series, F1 for GT*96600-*56*** series)	Conquer Electronics Co., Ltd.	MST series	T3.15A, 250V	IEC 60127-1 IEC 60127-3 UL 248-1 UL 248-14	VDE 40017118 UL E82636
Y capacitor (CY1, CY2) (CY1 for GT*96600-*56*** series) (Optional)	TDK-EPC Corporation, Capacitors Group Circuit Devices Business Group	CD	Y1, AC250V, max 2200pF, 25/125/21/B	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40029780 UL E37861

Alt. use	Success Electronics Co., Ltd.	SE	Y1, AC250V, or AC500V, max 2200pF, 40/125/56/C	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40037211 VDE 40020002 UL E114280
Alt. use	Success Electronics Co., Ltd.	SB	Y1, AC250V, max 2200pF, 40/125/56/C	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40037221 VDE 40020001 UL E114280
Alt. use	Murata Mfg. Co., Ltd.	KX	Y1, AC250V, max 2200pF, 25/125/21/B	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40002831 UL E37921
Alt. use	Walsin Technology Corp.	AH	Y1, AC250V, max 2200pF, 25/125/21/C	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40001804 UL E146544
Alt. use	JYA-NAY Co., Ltd.	JN	Y1, AC250V, max 2200pF, 25/125/21/C	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40001831 UL E201384
Alt. use	Haohua Electronic Co.	CT 7	Y1, AC250V, max 2200pF, 30/125/56/C	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40003902 UL E233106
Alt. use	Jyh Chung Electronic Co., Ltd.	JD	Y1, AC250V, max 2200pF, 40/125/21/C	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 137027 UL E187963
Alt. use	Jerro Electronics Corp.	JX-series	Y1, AC250V, max 2200pF, 40/125/21/C	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40032158 UL E333001
Alt. use	WELSON INDUSTRIAL CO LTD	WD	Y1, AC250V, max 2200pF, 55/125/21/C	IEC/EN 60384-14	VDE 40016157
X capacitor (CX1) (Optional)	Cheng Tung Industrial Co., Ltd.	CTX	Min. 300VAC, Max. 0.47μF,110 °C, X1 or X2	UL 60384-14 UL 1414	UL E193049
Alt. use	Tenta Electric Industrial Co. Ltd.	MEX	Min. 250VAC, Max. 0.47μF, 40/100/21/B, X1 or X2	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 119119 UL E222911
Alt. use	Joey Electronics (Dong Guan) Co., Ltd.	MPX	Min. 250VAC, Max. 0.47μF, 40/105/21/B, X1 or X2	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40032481 UL E216807

Alt. use	Ultra Tech Xiphi Enterprise Co. Ltd.	HQX	Min. 250VAC, Max. 0.47µF, 40/100/21/C, X1 or X2	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40015608 UL E183780
Alt. use	Yuon Yu Electronics Co. Ltd.	MPX	Min. 250VAC, Max. 0.47µF, 40/100/21/C, X1 or X2	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40032392 UL E200119
Alt. use	Sinhua Electronics (Huzhou) Co., Ltd.	MPX	Min. 250VAC, Max. 0.47µF, 40/100/21/C, X1 or X2	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40014686 UL E237560
Alt. use	Jiangsu Xinghua Huayu Electronics Co., Ltd.	MPX - Series	Min. 250VAC, Max. 0.47µF, 40/100/21/C, X1 or X2	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40022417 UL E311166
Alt. use	Dain Electronics Co., Ltd.	MEX, MPX, NPX	Min. 250VAC, Max. 0.47µF, 40/100/21/C, X1 or X2	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40018798 UL E147776
Alt. use	Shenzhen Jinghao Capacitor Co., Ltd.	CBB62B	Min. 250VAC, Max. 0.47µF, 40/110/56/B, X1 or X2	IEC/EN 60384-14 UL 60384-14 UL 1414	VDE 40018690 UL E252286
Alt. use	Foshan Shunde Chuang Ge Electronic Industrial Co., Ltd.	MKP-X2	Min. 250VAC, Max. 0.47µF, 40/105/21/B, X2	IEC/EN 60384-14	VDE 40008922
Alt. use	Okaya Electric Industries Co. LTD	RE-Series	Min. 250VAC, Max. 0.47µF, 55/100/56/C, X2	IEC/EN 60384-14	VDE 40028657
Alt. use	VISHAY Capacitors Belgium NV	F 1772	Min. 250VAC, Max. 0.47µF, 40/100/56/C, X2	IEC/EN 60384-14	VDE 40005095
Alt. use	Winday Electronic Industrial Co., Ltd.	MPX series	Min. 250VAC, Max. 0.47µF, 40/100/21/C, X2	IEC/EN 60384-14	VDE 40018071
Alt. use	HUA JUNG COMPONENTS CO LTD	MPX series	Min. 250VAC, Max. 0.47µF, 40/100/21/C, X2	IEC/EN 60384-14	ENEC SE-ENEC-2001341 UL E149075

Photo coupler (U1 or U4) (U1 for GT*91099 series, U4 for GT*96600 series, U1 for GT*96600-*56*** series)	Everlight Electronics Co., Ltd.	EL817M	Dti=0.5mm Int., dcr=8.0mm thermal cycling test,110℃	EN IEC 60747-5-5	VDE 132249
Alt. use	Lite-On Technology Corporation	LTV-817M	Dti=0.5mm Int. , dcr=6.0mm dcr=8.0mm,thermal cycling test,110°C	EN IEC 60747-5-5	VDE 40015248
Varistor MOV1 or MOV (Optional) (MOV/MOV1 for GT*91099 series, MOV1 for GT*96600 series and GT*96600-*56*** series)	Thinking Electronic Industrial Co., Ltd.	TVR10471K, TVR14471K, TVR10621K	Max. Continuous voltage: min 300Vac(rms), 85°C, The coating is V-0	IEC 61051-1 IEC 61051-2 IEC 61051-2-2	VDE 005944
Alt. use	Centra Science Corp.	10D471K, 14D471K 10D621K 14D621K	Max. Continuous voltage: min 300Vac(rms), 85°C, The coating is V-0	IEC 61051-1 IEC 61051-2 IEC 61051-2-2	VDE 4008220
Alt. use	Success Electronics Co., Ltd.	SVR10D471K SVR14D471K SVR10D621K SVR14D621K	Max. Continuous voltage: min 300Vac(rms), 85°C, The coating is V-0	IEC 61051-1 IEC 61051-2 IEC 61051-2-2	VDE 40030401
Alt. use	Walsin Technology Co., Ltd.	14D471K 10D471K 14D621K 10D621K	Max. Continuous voltage: min 300Vac(rms), 85°C, The coating is V-0	IEC 61051-1 IEC 61051-2 IEC 61051-2-2	VDE 40010090
Alt. use	Lien Shun Electronics Co., Ltd.	14D471K 10D471K 14D621K 10D621K	Max. Continuous voltage: min 300Vac(rms), 85°C, The coating is V-0	IEC 61051-1 IEC 61051-2 IEC 61051-2-2	VDE 40005858
Alt. use	Ceramate Techn. Co., Ltd.	GNR10D471K GNR14D471K GNR10D621K GNR14D621K	Max. Continuous voltage: min 300Vac(rms), 85°C, The coating is V-0	IEC 61051-1 IEC 61051-2 IEC 61051-2-2	VDE 40031745

Alt. use	Brightking (Shenzhen) Co., Ltd.	14D471K 10D471K 14D671K 10D671K	Max. Continuous voltage: min 300Vac(rms), 85°C, The coating is V-0	IEC 61051-1 IEC 61051-2 IEC 61051-2-2	VDE 40027827
Alt. use	Joyin Co., Ltd.	JVR10N471K JVR14N471K JVR10N671K JVR14N671K	Max. Continuous voltage: min 300Vac(rms), 85°C, The coating is V-0	IEC 61051-1 IEC 61051-2 IEC 61051-2-2	VDE 005937
Alt. use	Xiamen Set electronics Co., Ltd.	TFV8S471K TFV10S471K	Max. Continuous voltage: min 300Vac(rms), 85°C, The coating is V-0	IEC 61051-1, IEC 61051-2, IEC 61051-2-2, IEC 62368-1	TUV-RH J 50554061
Alt. use	Guangdong Huiwan Electronics Technology Co Ltd	V-621K-10 DEH V-621K-14 DEH	Max. Continuous voltage: 385Vac, Min.125°C, The coating is V-0 Min.V-0	IEC 61051-1, IEC 61051-2, IEC 61051-2-2,	VDE 40043880
Alt. use	SHANTOU HIGH NEW TECHNOLOGY DEVELOPMNT ZONE SONGTIAN ENTERPRISE CO LTD	10D621K 14D621K	Max. Continuous voltage: Min. 385Vac(rms), Min. 125°C, The coating is V-0	IEC/EN 61051-1, IEC/EN 61051-2,	VDE 40023049
Alt. use	Thinking Electronic Industrial Co., Ltd.	TVR10621 TVR14621	Max. Continuous voltage: Min. 395Vac(rms), Min. 105°C, The coating is V-0	IEC/EN 61051-1, IEC/EN 61051-2,	VDE 005944
Appliance inlet CN1 Class I units(C6 type)	Zhejiang LECI Electronics Co., Ltd.	DB-6	2.5A, 250Vac	IEC/EN 60320-1	VDE 40032465
Alt. use	Rich Bay Co., Ltd.	R-30790	2.5A, 250Vac	IEC/EN 60320-1	VDE 40030381
Alt. use	Sun Fair Electric Wire & Cable (HK) Co. Ltd.	S-02	2.5A, 250Vac	IEC/EN 60320-1	VDE 40034448
Alt. use	TECX-UNIONS Technology Corporation	TU-333	2.5A, 250Vac	IEC/EN 60320-1	ENEC 00633
Alt. use	Rong Feng Industrial Co., Ltd.	RF-190	2.5A, 250Vac	IEC/EN 60320-1	VDE 40030379
Alt. use	Inalways Corporation	0724	2.5A, 250Vac	IEC/EN 60320-1	ENEC 2010080

Alt. use	Zhe Jiang Bei Er jia	ST-A04-002	2.5A, 250Vac	IEC/EN 60320-1	VDE 40016045
Alt. use	Shenzhen Delikang Electronics Technology Co. Ltd.	CDJ-2	2.5A, 250Vac	IEC/EN 60320-1	VDE 40015580
Appliance inlet CN1 Class I units (C14 type)	Zhejiang LECI Electronics Co., Ltd.	DB-14	10A, 250Vac	IEC/EN 60320-1	VDE 40032137
Alt. use	Rich Bay Co., Ltd.	R-301SN	10A, 250Vac	IEC/EN 60320-1	VDE 40030228
Alt. use	Sun Fair Electric Wire & Cable (HK)Co. Ltd.	S-03	10A, 250Vac	IEC/EN 60320-1	VDE 40034447
Alt. use	TECX-UNIONS Technology Corporation	TU-301-S, TU-301-SP	10A, 250Vac	IEC/EN 60320-1	ENEC 00647
Alt. use	Rong Feng Industrial Co., Ltd.	SS-120	10A, 250Vac	IEC/EN 60320-1	VDE 40028101
Alt. use	Inalways Corporation	0711	10A, 250Vac	IEC/EN 60320-1	ENEC 2010084
Alt. use	Zhe Jiang Bei Er jia	ST-A01-003J	10A, 250Vac	IEC/EN 60320-1	VDE 40013388
Appliance inlet CN1 Class II units (C8 type)	Zhejiang LECI Electronics Co., Ltd.	DB-8	2.5A, 250Vac	IEC/EN 60320-1	VDE 40032028
Alt. use	Rich Bay Co., Ltd.	R-201SN90	2.5A, 250Vac	IEC/EN 60320-1	VDE 40030384
Alt. use	Sun Fair Electric Wire & Cable (HK)Co. Ltd.	S-01	2.5A, 250Vac	IEC/EN 60320-1	VDE 40034449
Alt. use	TECX-UNIONS Technology Corporation	SO-222	2.5A, 250Vac	IEC/EN 60320-1	VDE 40043268
Alt. use	Rong Feng Industrial Co., Ltd.	RF-180	2.5A, 250Vac	IEC/EN 60320-1	VDE 40030168
Alt. use	Inalways Corporation	0721	2.5A, 250Vac	IEC/EN 60320-1	ENEC 2010087
Alt. use	Zhe Jiang Bei Er jia	ST-A03-005	2.5A, 250Vac	IEC/EN 60320-1	VDE 40014833

Alt. use	Shenzhen Delikang Electronics Technology Co. Ltd.	CDJ-8	2.5A, 250Vac	IEC/EN 60320-1	VDE 40025531
Appliance inlet CON1 Class II units (C18 type)	HCR ELECTRONICS CO., LTD	SK05	10A, 250Vac	IEC/EN 60320-1	ENEC (NO4018)
Alt. use	Rong Feng Industrial Co., Ltd.	SS-120	10A, 250Vac	IEC/EN 60320-1	VDE 40028101
Input connector CN1 (For open frame)	NELTRON INDUSTRIAL CO LTD	2114S	Min 240V; Min 1.5A; Flame class min. V-2;	UL 94	UL E144392
Alt. use	JOINT TECH ELECTRONIC INDUSTRIAL CO LTD	A7920 series A3960 series	Min 250V; Min 7A; Flame class min. V-2;	UL 94	UL E179987
Alt. use	ZHEJIANG HONGXING ELECTRICAL CO LTD	HX396XX-YYY series	Min 250V; Min 5A; Flame class min. V-2;	UL 94	UL E228500
Earthing wire for Class I model or class II +functional earth	KUNSHAN NEW ZHICHENG ELECTRONICS TECHNOLOGIES CO LTD	1015, 1007, 1185, 3271, 3266, 1569	Min. 20 AWG, Min. 300V, Min. 80°C	UL 758	UL E237831
Alt. use	ZHUANG SHAN CHUAN ELECTRICAL PRODUCTS (KUNSHAN) CO LTD	1015, 1007, 1185	Min. 20 AWG, Min. 300V, Min. 80°C	UL 758	UL E333601
Alt. use	DONGGUAN CHUANTAI WIRE PRODUCTS CO LTD	1015, 1007, 1185, 3271, 3266, 1569	Min. 20 AWG, Min. 300V, Min. 80°C	UL 758	UL E315628
Alt. use	YONG HAO ELECTRICAL INDUSTRY CO LTD	1015, 1007, 1185, 3271, 3266, 1569	Min. 20 AWG, Min. 300V, Min. 80°C	UL 758	UL E240426

Alt. use	DONGGUAN GUNEETAL WIRE & CABLE CO LTD	1015, 1007, 1185	Min. 20 AWG, Min. 300V, Min. 80°C	UL 758	UL E204204
Alt. use	SHENG YU ENTERPRISE CO LTD	1015, 1007, 1185	Min. 20 AWG, Min. 300V, Min. 80°C	UL 758	UL E219726
Alt. use	KUNSHAN XINGHONGMENG ELECTRONIC CO LTD	1015, 1007, 1185, 3271, 3266, 1569	Min. 20 AWG, Min. 300V, Min. 80°C	UL 758	UL E315421
Alt. use	SUZHOU YEMAO ELECTRONIC CO LTD	1015, 1007, 1185	Min. 20 AWG, Min. 300V, Min. 80°C	UL 758	UL E353532
Connection wiring for encapsulated models	KUNSHAN NEW ZHICHENG ELECTRONICS TECHNOLOGIES CO LTD	1015, 1007, 2468, 2464, 1185	Min. 20 AWG, Min. 300V, Min. 80°C	UL 758	UL E237831
Alt. use	Interchangeable	1015, 1007, 2468, 2464, 1185, SPT-1, SPT-2	Min. 20AWG, min. 300Vac, min. 80°C	UL 758	UL approved
Output cord	Interchangeable	Interchangeable	Min. 24AWG, min. 300Vac, min. 80°C	UL 758	UL approved
Heat-shrinkable tubing (for GTM91099 series it is Optional)	SHENZHEN WOER HEAT-SHRINKABLE MATERIAL CO LTD	RSFR, RSFR-H, RSFR-HPF	600V, 125°C, thickness Min0.4mm , L 75mm	UL 224	UL E203950
Alt. use	QIFURUI ELECTRONICS CO	QFR-h	600V, 125°C , thickness Min0.4mm, L 75mm	UL 224	UL E225897
Alt. use	DONGGUAN SALIPT CO LTD	SALIPT S-901-300 SALIPT S-901-600	Min. 300V, 125°C Min0.4mm, L 75mm	UL 224	UL E209436
Alt. use	GUANGZHOU KAIHENG ENTERPRISE GROUP	K-2 (+) K-2 (CB)	Min. 300V, 125°C Min0.4mm, L 75mm	UL 224	UL E214175

Alt. use	CHANGYUAN ELECTRONICS (SHENZHEN) CO LTD	CB-HFT	Min. 300V, 125°C Min0.4mm, L 75mm	UL 224	UL E180908
Transformer (T1)	GlobTek / HAOPUWEI	See the list of P156	Class B, with critical component listed below	IEC 60601-1	Tested with appliance
-Varnish	T-4260(a)	TAIHU INSULATING MATERIAL	130 °C。	UL 1446	UL E228349
- Magnet wire	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD	UEWN/U	MW28-C, 130°C	UL 1446	UL E201757
Alt. use	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD	UEWS/U	MW75-C, 130°C	UL 1446	UL E201757
Alt. use	JUNG SHING WIRE CO LTD	UEW-4	MW75C, 130°C	UL 1446	UL E174837
Alt. use	JUNG SHING WIRE CO LTD	UEY-2	MW28-C, 130°C	UL 1446	UL E174837
Alt. use	JIANGSU HONGLIU MAGNET WIRE TECHNOLOGY CO LTD	2UEW/130	MW75-C, 130°C	UL 1446	UL E335065
Alt. use	CHANGZHOU DAYANG WIRE & CABLE CO LTD	2UEW/130	MW75-C, 130°C	UL 1446	UL E158909
Alt. use	WUXI JUFENG COMPOUND LINE CO LTD	2UEWB	MW75#, 130°C	UL 1446	UL E206882
Alt. use	JIANGSU DARTONG M & E CO LTD	UEW	MW 75-C, 130°C	UL 1446	UL E237377
Alt. use	SHANDONG SAINT ELECTRIC CO LTD	UEW/130	MW75#, 130°C	UL 1446	UL E194410
Alt. use	ZHEJIANG LANGLI ELECTRIC EQUIPMENTS CO LTD	UEW	MW 79#, 130°C	UL 1446	UL E222214
Alt. use	NINGBO JINTIAN NEW MATERIAL CO LTD	2UEW	MW 79#, 130°C	UL 1446	UL E222214
-Triple-insulated wire	Great Leoflon Industrial Co., Ltd.	TRW (B) Serie(s)	Class B, reinforced insulation,	UL 2353 UL 60601-1	VDE 136581 UL E211989

(Secondary)	HOI LUEN ELECTRICAL MFR CO LTD	THL-F-xx	Class B, reinforced insulation	UL 60950-1, UL 60601-1	UL E257525
		THL-F-SB-xx	Class B, reinforced insulation	UL 60950-1, UL 60601-1	UL E257525
-Bobbin	CHANG CHUN PLASTICS CO LTD	T375HF	V-0, 150°C, thickness 0,45 mm min.	UL 94 UL 746 A/B/C/D	UL E59481
- Alt. use	SUMITOMO BAKELITE CO LTD	PM-9820	V-0, 150°C, thickness 0,45 mm min.	UL 94 UL 746 A/B/C/D	UL E41429
-Insulating tape	3M COMPANY ELECTRICAL MARKETS DIV (EMD)	1350T-1	Min.130°C	UL 510	UL E17385
- Alt. use	CHANG SHU LIANG YI TAPE INDUSTRY CO LTD	LY-XX	Min.130°C	UL 510	UL E246820
- Alt. use	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	CT	Min.130°C	UL 510	UL E165111
-PTFE tubing	SHENZHEN WOER HEAT-SHRINKABLE MATERIAL CO LTD	WF	600V, 200°C,0.4mm	UL224	UL E203950
-Insulating tape Used on HS1	3M COMPANY ELECTRICAL MARKETS DIV (EMD)	1350T-1	1:Overall measured 40mm by 117mm, 0.05mm thick, 1 layers 2:25mm by 87mm, 0.025mm thick, 2 layers 3:20mm by 101mm, 0.025mm thick, 2 layers.	UL 510	UL E17385
-Insulating tape Used on HS1（use 3 types，for GTM96600 series）	BONDTEC PACIFIC CO LTD	370S	1:Overall measured 40mm by 117mm, 0.05mm thick, 1 layers 2:25mm by 87mm, 0.025mm thick, 2 layers 3:20mm by 101mm, 0.025mm thick, 2 layers.	UL 510	UL E175868

- Alt. use	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	PZ CT WF	Overall measured 40mm by 117mm, 0.05mm thick, 1 layers 25mm by 87mm, 0.025mm thick, 2 layers 20mm by 101mm, 0.025mm thick, 2 layers.	UL 510	UL E165111
- Alt. use	JINGJIANG JINGYI ADHESIVE PRODUCT CO LTD	JY25-A	Overall measured 40mm by 117mm, 0.05mm thick, 1 layers 25mm by 87mm, 0.025mm thick, 2 layers 20mm by 101mm, 0.025mm thick, 2 layers.	UL 510	UL E246950
- Alt. use	CHANG SHU LIANG YI TAPE INDUSTRY CO LTD	LY-XX	Overall measured 40mm by 117mm, 0.05mm thick, 1 layers 25mm by 87mm, 0.025mm thick, 2 layers 20mm by 101mm, 0.025mm thick, 2 layers.	UL 510	UL E246820
HS1 for GTM96600 series	Interchangeable	Interchangeable	Aluminum Approximate overall dimension （42.9mm+23.5mm）×82mm , 2.0mm thick.	IEC 60601-1	Tested with appliance
HS2 for GTM96600 series	Interchangeable	Interchangeable	Aluminum Approximate overall dimension （103.5mm+14.5mm）×24.3mm, 2.0mm thick.	IEC 60601-1	Tested with appliance
Enclosure (all parts)	SABIC INNOVATIVE PLASTICS B V	SE1X, SE1	PPE+PS, Min. V-1, Min. thickness: 2.0mm, 105°C	UL 94 UL 746 A/B/C/D	UL E45329
Alt. use	SABIC INNOVATIVE PLASTICS B V	SE100	PPE+PS, Min. V-1, Min. thickness: 2.0mm, 95°C	UL 94 UL 746 A/B/C/D	UL E45329

Alt. use	SABIC INNOVATIVE PLASTICS B V	CX7211	PC/ABS, Min. V-1, Min. thickness: 2.0mm, 90°C	UL 94 UL 746 A/B/C/D	UL E45329
Alt. use	SABIC INNOVATIVE PLASTICS B V	945	PC, Min. V-1, Min. thickness: 2.0mm, 120°C	UL 94 UL 746 A/B/C/D	UL E45329
Alt. use	SABIC JAPAN L L C	945	PC,Min. V-1,Min thickness:2.0mm 120°C	UL94 UL746A/B/C/D	UL207780
Alt. use	SABIC INNOVATIVE PLASTICS B V	HF500R	PC, V-0, Min. thickness: 2.0mm, 125°C	UL 94 UL 746 A/B/C/D	UL E45329
Alt. use	TEIJIN CHEMICALS LTD	LN-1250G	PC, Min. V-0, Min. thickness: 2.0mm, 115°C	UL 94 UL 746 A/B/C/D	UL E50075
Alt. use	CHI MEI CORPORATION	PA-765A	ABS, Min. V-0, Min. thickness: 2.0mm, 85°C	UL 94 UL 746 A/B/C/D	UL E56070
Alt. use	CHI MEI CORPORATION	PC-540	PC/ABS, Min. V-0, Min. thickness: 2.0mm, 70°C	UL 94 UL 746 A/B/C/D	UL E56070
Bleeder Resistor R10,R11 for GTM96600 series	Yageo Components (Suzhou)	RV1206	R10:100KΩ，R11:47KΩ	IEC62368-1	DK-108482-UL E491855
	TZAI YUAN ENTERPRISE CO LTD	HSMD OR SMD	R10:100KΩ，R11:47KΩ	IEC62368-1	E354677 DK-29431-UL
	Viking Tech Corporation Kaoshiung Branch	HVRC series	R10:100KΩ，R11:47KΩ	IEC 62368-1	DK-121748-UL E490339
	TY-Ohm Suzhou Electronic Works Co. Ltd	RT	R10:100KΩ，R11:47KΩ	IEC/EN 60950-1	VDE 40031266 UL E321764
	Ralec Electronic corp	RTV06	R10:100KΩ，R11:47KΩ	IEC 62368-1	DK-66106-M1-UL
	Thick Film High-Voltage Chip Resistor	RVS-06#XXXFT series	R10:100KΩ，R11:47KΩ	IEC 62368-1	DK-121748-UL
	WALSIN TECHNOLOGY CORP	WF12N	R10:100KΩ，R11:47KΩ	IEC 62368-1	DK-119162-UL E491855
	Viking Tech Corporation Kaoshiung Branch	HVR series	R10:100KΩ，R11:47KΩ	IEC 62368-1	DK-143770-UL E490339
D2/D3 for GTM96600 series	YANGZHOU HYTECHNOLOGY DEVELOPMENT CO., LTD.	S1ML	Min.1000V Min.1A	IEC 60601-1	Test with equipment

ALT.	Interchangeable	Interchangeable	Min.1000V Min.1A	IEC 60601-1	Test with equipment
U1 for GTM96600 series	NXP Semiconductor Taiwan Ltd	TEA18362T	Vcc: Min 30V	IEC 62368-1	DK-40437-UL
BD1 for GTM96600 series	YANGZHOU HONGYANG ELECTRONIC., LTD	KBL406	4A, 600V	IEC 60601-1	Test with equipment
Alt.	Interchangeable	Interchangeable	Min. 4A, Min. 600V	IEC 60601-1	Test with equipment
Q1 for GTM96600 series	Oriental semiconductor	OSG65R760F	7A, 650V	IEC 60601-1	Test with equipment
Alt.	SILIKRON	SSF7NS65UF	7A, 650V	IEC 60601-1	Test with equipment
Alt.	Interchangeable	Interchangeable	Min 7A, Min 600V	IEC 60601-1	Test with equipment
Bulk Cap C1 for GTM96600 series	AISHI	WH	120uF, 400V, 105℃	IEC 60601-1	Test with equipment
Alt.	SAMXON	KM	120uF, 400V, 105℃	IEC 60601-1	Test with equipment
Alt.	TEAPO	SH	120uF, 400V, 105℃	IEC 60601-1	Test with equipment
Alt.	Interchangeable	Interchangeable	120uF, Min. 400V, 105℃	IEC 60601-1	Test with equipment
Choke LF1 for GTM96600 series	HEJIA	GTM91099-LF1	Min200uH	IEC 60601-1	Test with equipment
Choke LF2 for GTM96600 series	HAOPUWEI	NF00031	Min10mH	IEC 60601-1	Test with equipment
Plug Enclosure	**SABIC INNOVATIVE PLASTICS B V**	**C2950**	**Min. V-0, Min. thickness: 2.0mm, Min. 75°C**	**UL 94**	**Tested with appliance UL E45329**
Alt.	**SABIC INNOVATIVE PLASTICS B V**	**945**	**Min. V-0, Min. thickness: 2.0mm, Min. 120°C**	**UL 94**	**Tested with appliance UL E45329**
Alt.	**SABIC JAPAN L L C**	**C2950**	**Min. V-0, Min. thickness: 2.0mm, Min. 75°C**	**UL 94**	**Tested with appliance UL E207780**
Alt.	**SABIC JAPAN L L C**	**945**	**Min. V-0, Min. thickness: 2.0mm, Min. 120°C**	**UL 94**	**Tested with appliance UL E207780**
Alt.	**SABIC INNOVATIVE PLASTICS US L L C**	**C2950**	**Min. V-0, Min. thickness: 2.0mm, Min. 75°C**	**UL 94**	**Tested with appliance UL E121562**

Alt.	**SABIC INNOVATIVE PLASTICS US L L C**	**945**	**Min. V-0, Min. thickness: 2.0mm, Min. 120°C**	**UL 94**	**Tested with appliance UL E121562**
Supplementary information: Provided evidence ensures the agreed level of compliance. See OD-CB2039. For all transformers under all manufacturers.					

Appendix: Equipment combined with EU plug

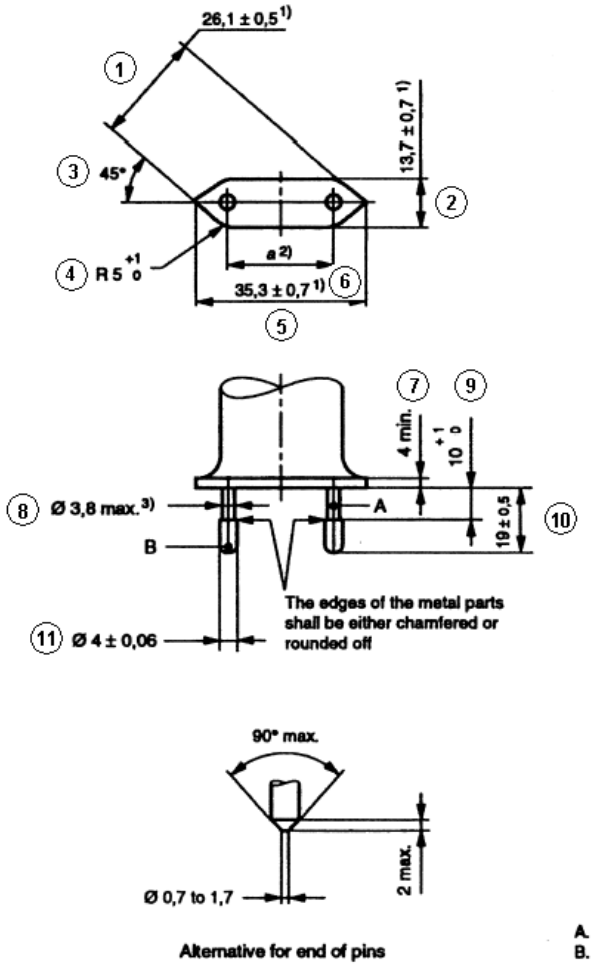
Supplementary tests on plug portion according to EN 50075:1990

5	**RATING**		N/A
	1.5 A AC 240 V 2.0 A AC 240 V	GT*91099-***-**: Input: 1.5A, 100-240V~, 50-60Hz or 50/60Hz; Output: 5-48VDC, Max. 60W (end product) GT*96600-***-**: Input: 1.5A, 100-240V~, 50-60Hz or 50/60Hz; Output: 5-54VDC, Max. 65W (end product) *96600-*56***: Input: 2.0A, 100-240V~, 50-60Hz or 50/60Hz; Output: 56VDC, Max. 70W (end product)	N/A
6	**MARKING** (It should be checked with end product in main test report)		N/A
6.1/.2	Rated current:		N/A
	Rated voltage:		N/A
	Nature of supply:		N/A
	Name of manufacturer or responsible vendor		N/A
	Type reference		N/A
6.3	Symbol for Class II construction not allowed		N/A
6.4	Marking durable		N/A
	Easily legible		N/A
	Test: 15 s water and 15 s petroleum spirit		N/A
7	**DIMENSIONS**		P
	Compliance with Standard Sheet 1		P
	Gauges of figures 1 and 2		P
8	**PROTECTION AGAINST ELECTRIC SHOCK**		P
8.1	Test finger of fig.3		P
	Ambient temperature	35°C	P
	Force: 75 N		P
8.2	Gauge of fig. 4		P
	Ambient temperature: 35 ± 2 °C		P
8.3	External parts of insulating material		P

9	**CONSTRUCTION**		P
9.1	Non-rewirable plug		P
9.2	Switches, fuses and lampholders not incorporated	No such components	P
9.3	Pins of plug solid		P
9.4	Pins of plug locked against rotation		P
9.5	Effective permanent connections:		P
	- soldered, welded, crimped	riveted	P
	- screwed and snap-on connections not used		P
	- pre soldered flexible conductor for crimping not permitted		P
9.6	Gripping operation:		P
	- length ≥ 55 mm		N/A
	- ball test	Test with end appliance	P
10	**RESISTANCE TO HUMIDITY**		P
	No damage after 48 h		P
11	**INSULATION RESISTANCE AND ELECTRIC STRENGTH**		P
11.1	Resistance ≥ 5 MΩ (500 V, 1 min)		P
11.2	Electric strength test (2000 V, 1 min): no flashover or breakdown		P
12	**FLEXIBLE CORDS AND THEIR CONNECTION**		N/A
12.1	Cords in compliance with HD 21.5 or HD 22.4		N/A
13	**MECHANICAL STRENGTH**		P
13.1	Compression test (150 N, 5 min)		P
13.2	Tumbling barrel test: number of falls.....:		N/A
	Torque test on pins (0,4 Nm, 1 min)		N/A
13.3	Abrasion test (20.000 movements): no damage		N/A
14	**RESISTANCE TO HEAT AND TO AGEING**		P
14.1.1	Heating test (100 °C, 1 h): no damage		P
14.1.2	Pressure test (80°C, 20 N, 1 h): no damage		P
15	**CURRENT-CARRYING PARTS AND CONNECTIONS**		P
15.1	Connections withstand the mechanical stresses occurring in normal use		P
15.2	Contact pressure		P
15.3	Material of current-carrying parts		P
16	**CREEPAGE DISTANCES, CLEARANCES AND DISTANCES THROUGH INSULATION**		P
	Creepage distances and clearances between live	Complied	P

	parts ≥ 3 mm		
	Creepage distances and clearances between live parts and accessible external surfaces ≥ 3 mm	Complied	P
	Distance through insulation ≥ 1,5 mm		N/A
17	**RESISTANCE OF INSULATING MATERIAL TO ABNORMAL HEAT AND TO FIRE**		
	Glow-wire test (750 °C): no visible flame, no sustained glowing or flames and glowing extinguish within 30 s after removal of glow-wire	no visible flame	P
	Glow-wire test (650 °C): no visible flame, no sustained glowing or flames and glowing extinguish within 30 s after removal of glow-wire	no visible flame	P
12.2	**Moulded-on plugs**		N/A
	Pull test (100 times, 50 N, 1 s)		N/A
	Torque test (1 min):		N/A
	cross-sectional area ≤ 0,5 mm², 0,1 Nm: displacement ≤ 2 mm; no break in electrical connections		N/A
	cross-sectional area ≥ 0,75 mm², 0,15 Nm: displacement ≤ 2 mm; no break in electrical connections		N/A
13.4	**Mechanical strength**		P
	Pull test with steel plate on pin (40 N, 70 °C, 1 min): displacement of pin ≤ 1 mm	Complied	P
14	**Resistance to heat and to ageing**		P
14.2	Heating test (70 °C, 168 h): no damage, no cracks visible		P
	Pressure test (5 N): no traces		P
12.3	**Flexible cords and their connection**		N/A
	Flexing test (10.000 flexings, 2,5 A, AC 250 V) - 10 N (cross-sectional area ≤ 0,75 mm²) - 20 N (cross-sectional area > 0,75 mm²) no damage		N/A
	Voltage drop ≤10 mV test current: - 1 A with H03 VH-Y - 2.5 A with other cords		N/A

Dimensions of plug



Dimensions in millimetres

[1] These dimensions shall not be exceeded within a distance of 18 mm from the engagement face of the plug.

[2] Dimension *a* is:

18 mm to 19,2 mm in the plane of the engagement face;

17 mm to 18 mm at the ends of the pins.

[3] This dimension may be increased to 4 mm within a distance of 4 mm from the engagement face of the plug.

Pin ends shall be rounded, or conical as shown in detail sketch.

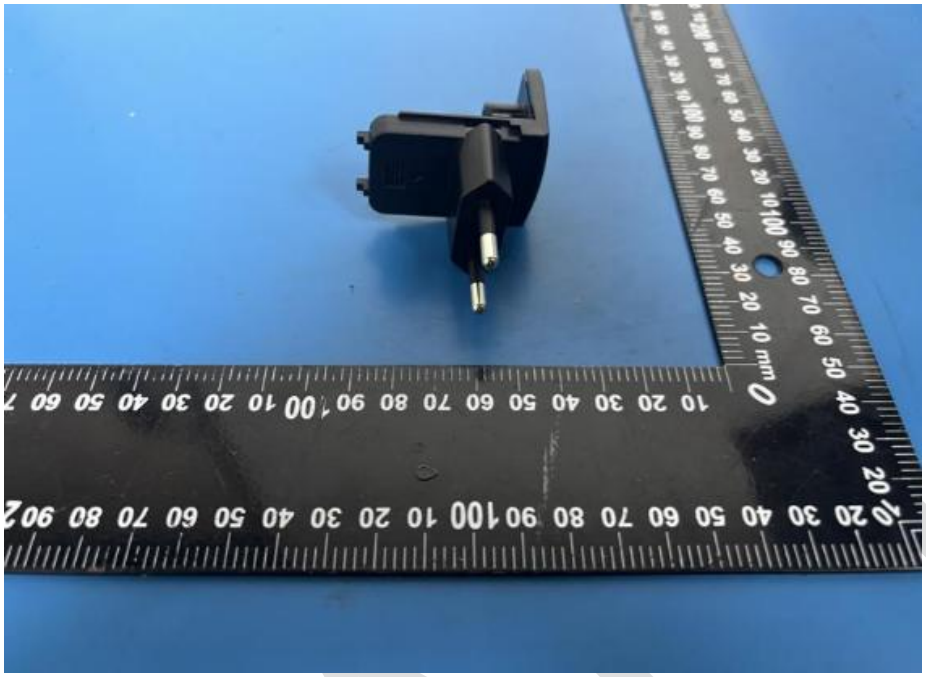
The sketches are not intended to govern design except as regards the dimensions shown.

CHECKING OF DIMENSIONS

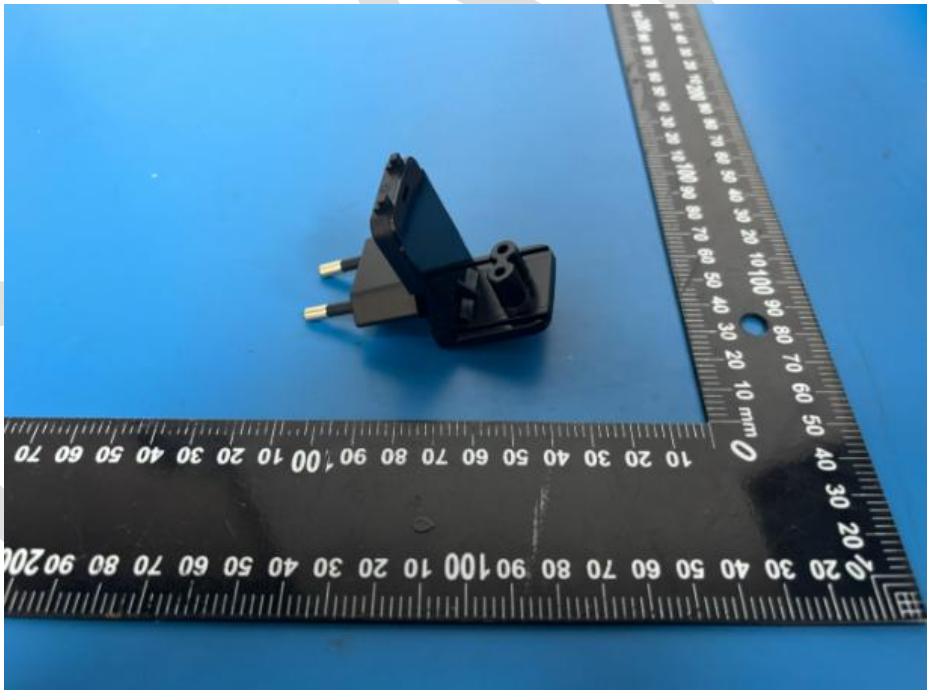
	DIMENSIONS Checked by means of measurement according to EN50075 Standard sheet 1		P
Position	Requirement (mm)	Measured (mm)	Verdict
1	25.6 – 26.6	25.75	P
2	13 – 14.4	13.93	P
3	45°	45°	P
4	R5 – 6	R5.4	P
5	34.6 – 36	35.12	P
6	18-19.2 in the plane of the engagement face	18.23	P
	17-18 at the ends of the pins	17.47	P
7	4min	-	N/A
8	ϕ3,8max	ϕ3.51	P
9	10-11	10.11	P
10	18.5 – 19.5	19.14	P
11	ϕ3.94 - ϕ4.06	ϕ3.98	P
	Dimensions of position 1, 2 and 3 shall not be exceeded within a distance of 18mm from the engagement face of the plug	19.15	P
	The edges of the metal parts shall be either chamfered or rounded off	Rounded off	P

DRAFT

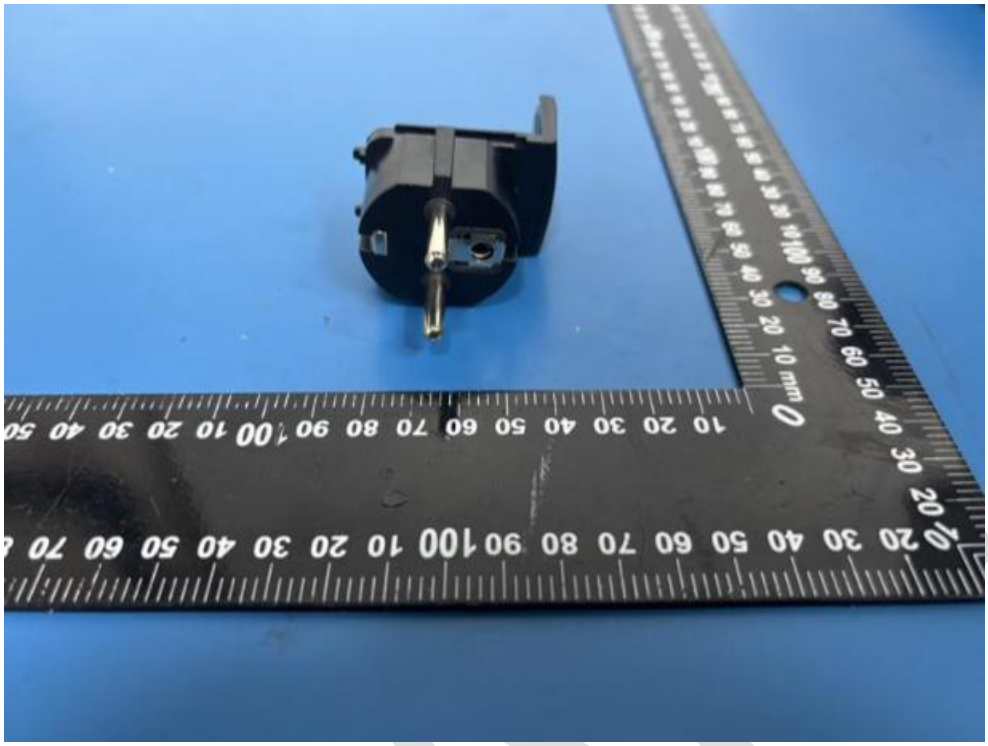
View of R-EU-2



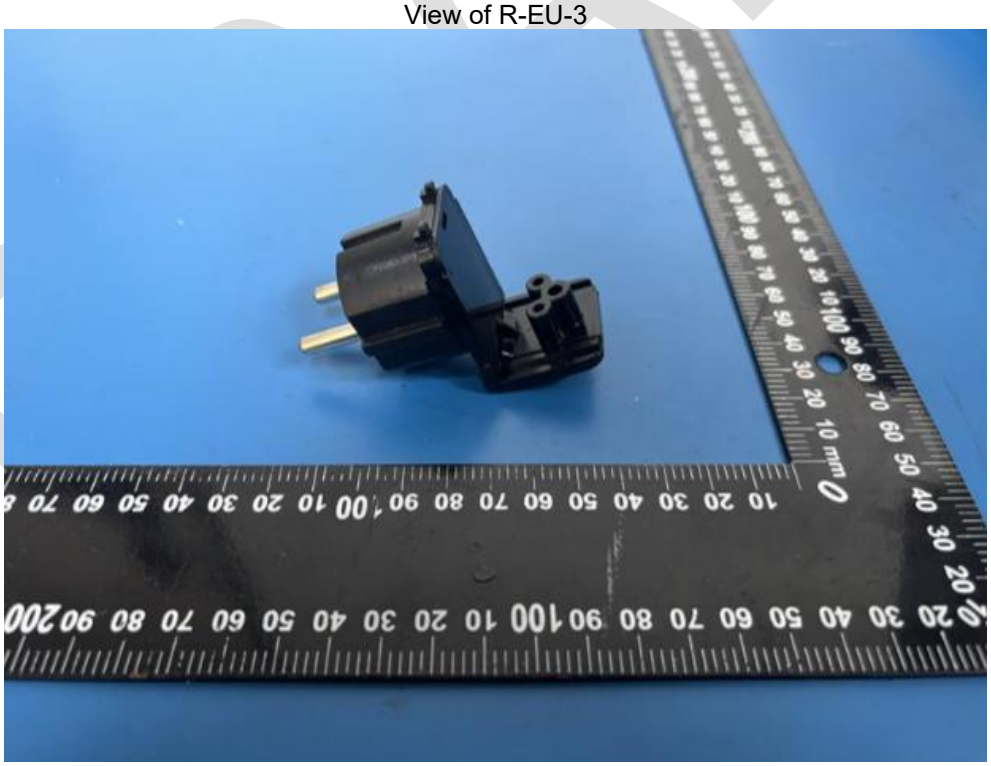
View of R-EU-2



View of R-EU-3



View of R-EU-3



View of connect to end product



View of connect to end product



Appendix: Equipment's combined with Australian plug.

The Australian plug was tested according to Annex J of AS/NZS 3112:2011+A1:2012:

Clause	Requirement – Test	Remark	Verdict
2.2	PLUG PINS		P
2.2.1	MATERIAL FOR PINS: - Copper alloy containing at least 58% copper for parts made from cold rolled sheet		P
2.2.2	ASSEMBLY OF PINS - Assembled in factory and non-rewirable		P
2.2.3	FORM OF PIN		P
2.2.4*	INSULATION OF PLUG PINS - Live parts of insulated pins plug are not exposed when plug is partially or fully engaged with the associated socket.		P
2.3	INSULATING MATERIALS		P
2.3.1	GENERAL		P
2.3.2	PLUG BODY - Consisting of PBT which has properties not inferior to those specified in AS 3121 for insulating mouldings having a temperature class of 80°C		P
2.3.3	PLUG COVER - Consisting of PVC which has properties not inferior to those specified in AS 3121 for insulating mouldings having a temperature class of 60°C		P
2.8	RATINGS AND DIMENSIONS OF LOW VOLTAGE PLUGS - Comply with Figure 2.1 (c), rated 10A 250V~. - Distance between live pin and edge of plug moulding more than 9 mm		P
2.9	INTERNAL CONNECTIONS -No earthing connection		N/A
2.10	ARRANGEMENT OF EARTHING CONNECTIONS -No earthing connection		N/A
2.12	MARKING (No marking is applicable for the integral plug portion. See markings for transformer)		N/A
2.12.6	CONFIGURATION OF PLUGS - Figure 2.1 (c), the pin configuration is neutral and active in a clockwise direction		P
2.13	TESTS ON PLUGS		P
2.13.3	HIGH VOLTAGE TEST		P
2.13.7	TUMBLING BARREL TEST		P
2.13.8	TEMPERATURE RISE TEST		P

Clause	Requirement – Test	Remark	Verdict
2.13.9	SECUREMENT OF PLUG		P
2.13.9.1	MOVEMENT OF PINS		P
2.13.9.2	FIXING OF PINS		P
2.13.13	ADDITIONAL TESTS ON THE INSULATION MATERIAL OF INSULATED PIN PLUGS		P

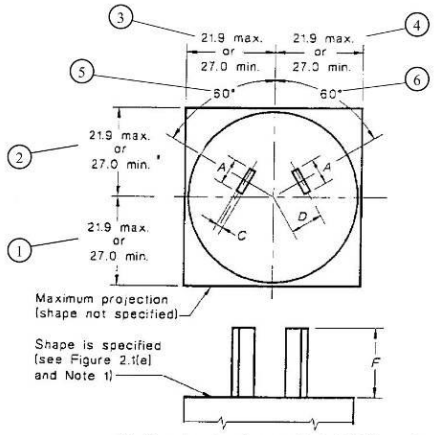
INSULATING MATERIALS TEST IN ACCORDANCE WITH AS/NZS 3121: 2002			
7.1	General		P
7.2	Resistance to heat test The moulding shall be placed in an oven and maintained for 6 h at the temperature appropriate to its class (see Clause 5) plus 10°C. The temperature of the oven during this period shall not vary by more than ± 5°C. The moulding shall show no physical or chemical change likely to impair the safety of the equipment of which it forms a part.		P
7.3	Water absorption test The complete moulding shall be immersed in water at 20 °C ± 5°C for 48 h. The moulding shall not swell, delaminate, warp or show any physical change to a degree that would be liable to impair the safety of the equipment of which it forms a part.		P
7.4	Resistance to white spirit test Sample shall be immersed in white spirit at room temperature for 2 min. The moulding shall not blister, warp or show any physical or chemical change to a degree that would be liable to impair the safety of the equipment of which it forms a part.		P

Appendix: Equipment's combined with Australian plug.

CHECKING OF DIMENSIONS (Class II)

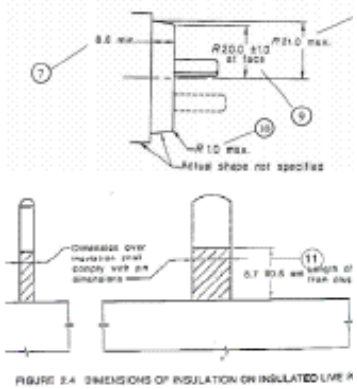
Dimensions checked by gauge and measurement

Standard sheet Figure 2.1 (c)

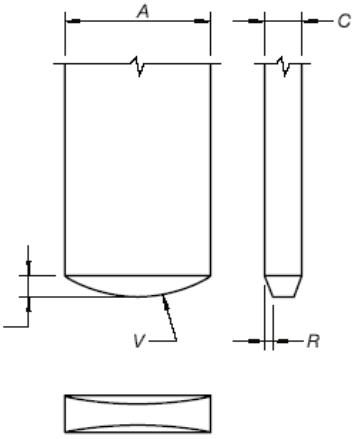


(c) Two-pin plugs (up to 10 A, 250 V max.)

Standard sheet Figure 2.1 (e)



Standard sheet Figure 2.1 (h)

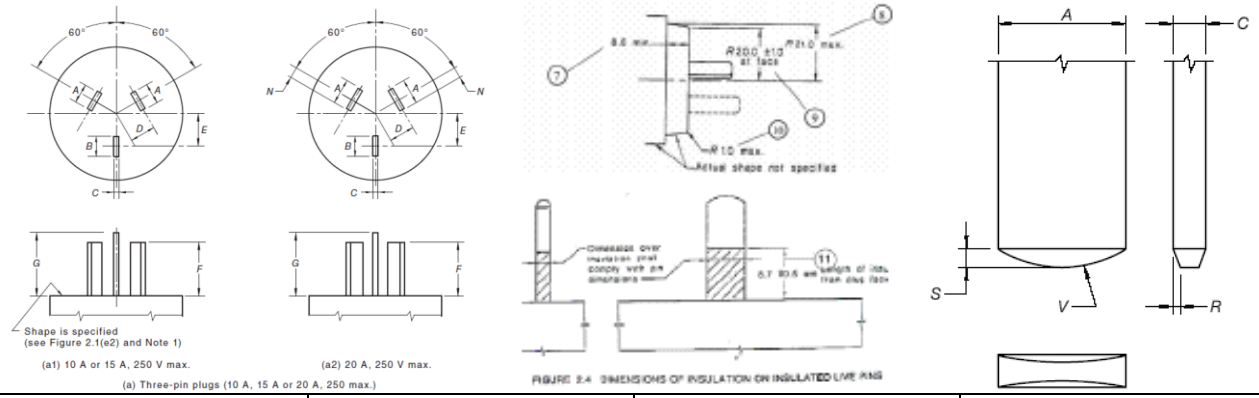


Position	Required(mm)	By Measurement (mm)	By the gauge shown in Figure A1
A	6.35±0.15	6.42	-
B	6.35±0.15	-	N/A
C	$1.63^{+0.15}_{-0.05}$	1.67	-
D	7.92	-	OK
E	10.31	-	OK
F	17.06±0.4	17.34	-
G	19.94±0.8	-	N/A
P	4.75±0.05	-	-
R	0.35±0.05	0.36	-
S	0.90±0.10	0.95	-
T	≥0.60	-	-
V	6	-	OK
1	21.9 max. or 27.0 min.	18.6	-
2	21.9 max. or 27.0 min.	18.6	-
3	21.9 max. or 27.0 min.	18.6	-
4	21.9 max. or 27.0 min.	18.6	-
5	60°	-	OK
6	60°	-	OK
7	8.6 min.	8.8	-
8	21.0 max.	20.7	-
9	20.0±1.0	-	N/A
10	1.0 max	0.7	-
11	8.7±0.5	8.7	-

Appendix: Equipment's combined with Australian plug.

CHECKING OF DIMENSIONS (Class I)

Dimensions checked by gauge and measurement

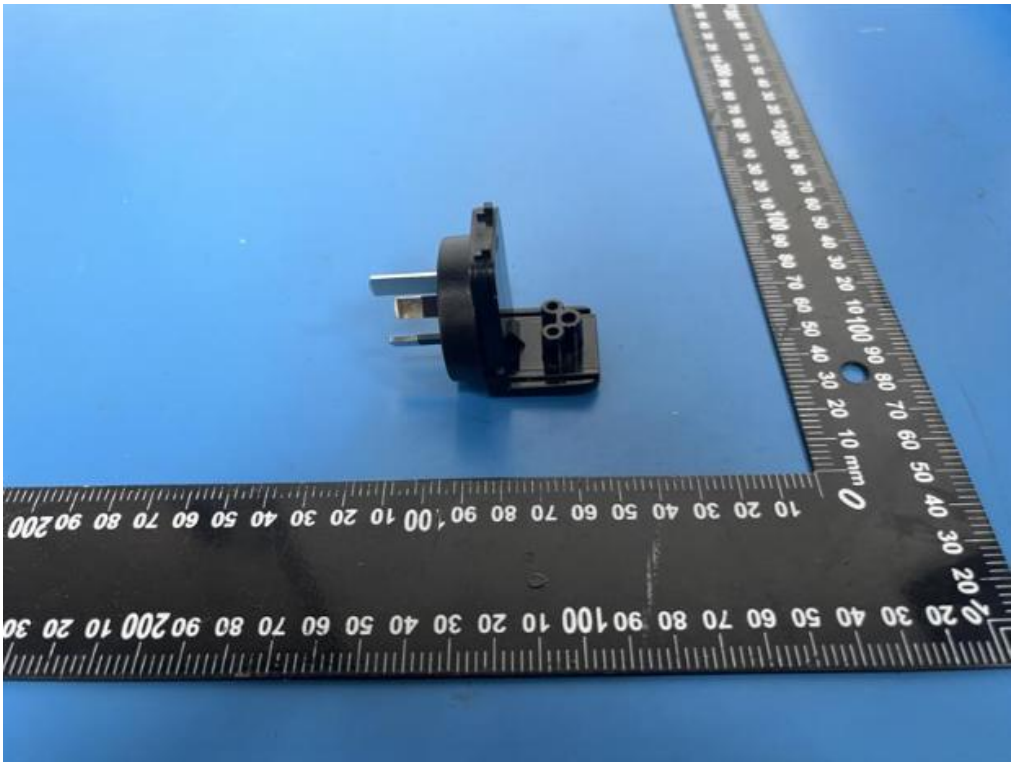


Position	Required(mm)	By Measurement (mm)	By the gauge shown in Figure A1
A	6.35±0.15	6.31	-
B	6.35±0.15	6.22	N/A
C	$1.63^{+0.15}_{-0.05}$	1.67	-
D	7.92	-	OK
E	10.31	-	OK
F	17.06±0.4	17.34	-
G	19.94±0.8	19.95	N/A
P	4.75±0.05	-	-
R	0.35±0.05	0.36	-
S	0.90±0.10	0.95	-
T	≥0.60	-	-
V	6	-	OK
1	21.9 max. or 27.0 min.	18.6	-
2	21.9 max. or 27.0 min.	18.6	-
3	21.9 max. or 27.0 min.	18.6	-
4	21.9 max. or 27.0 min.	18.6	-
5	60°	-	OK
6	60°	-	OK
7	8.6 min.	8.8	-
8	21.0 max.	20.7	-
9	20.0±1.0	-	N/A
10	1.0 max	0.7	-
11	8.7±0.5	8.7	-

View of R-SAA-3



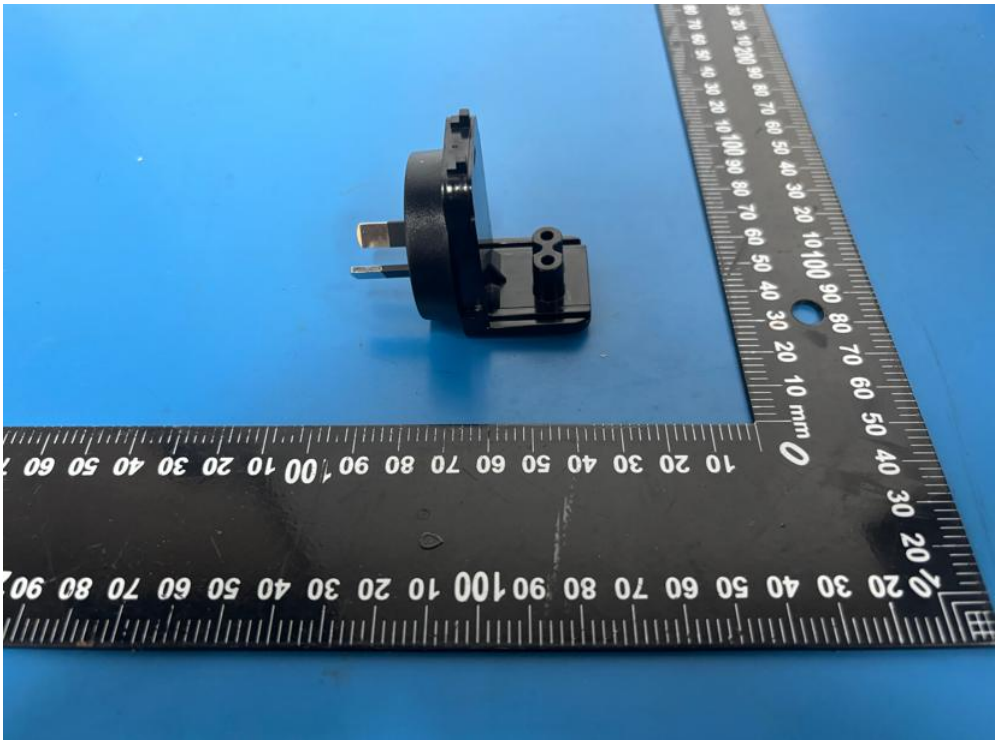
View of R-SAA-3



View of R-SAA-2



View of R-SAA-2



View of connect to end product



View of connect to end product



Appendix: Equipment combined with NEMA 1-15 plug portion.

KEY:

√	**= Complies.**	**G**	**= General comment**
E	**= Further evaluation required**	**N/A**	**= Not applicable**
E√	**= Once "E" is found acceptable**	**T**	**= Testing required**
F	**= Non-compliance**	**TF**	**= Test failed**

Section	Key	Comment
FORWARD		
Introduction		
1		**Scope**
1.1-1.4	G	The device under evaluation is an integrated plug for model GT*91099-***-** input rating 1.5A, 100-240V~, 50-60Hz or 50/60Hz, output rating 5-48VDC, Max. 60W; model GT*96600-***-** input rating 1.5A, 100-240V~, 50-60Hz or 50/60Hz, output rating 5-54VDC, Max. 65W; model GT*96600-*56*** input rating 2.0A, 100-240V~, 50-60Hz or 50/60Hz, output rating 56VDC, Max. 70W. The plug is evaluated according to rated input.
2		**Glossary**
2.1-2.38	G	Noted.
3		**Components**
3.1-3.4	G	Noted
4		**Units of Measurement**
4.1	G	Noted
5		**Reference**
5.1	G	Noted
CONSTRUCTION		
		ALL DEVICES
6		**General**
6.1	√	According to declared reasonable condition, 100-240VAC, 50-60Hz, has been considered in all following test.
6.2	√	Plug for AC use only
7		**Configurations**
7.1	√	1-15P plug applied.
8		**Insulating Materials**
8.1		General
8.1.1	√	All parts that act as the electrical insulation or enclosure are made of plastic material. See 8.2.1
8.1.2	N/A	Vulcanized fiber is not provided
8.2		Flammability
8.2.1	√	The insulating material required HB or more. For detailed parts, see report of end product)
8.3		Electrical properties
8.3.1	√	Exception No. 1: No information according to above table info. The insulating material has a CTI 3 (Required 3), so it need NOT comply with Comparative Tracking Index Test, Section 55.

Section	Key	Comment
8.3.2	√	Exception No. 2: The insulating material has a HWI 3, (required HWI value is 4 when material class is V-0). According to 8.1.2 (UL746D) and reasonable usage, reasonable arcing occurs in normal use. We are of the opinion that it need NOT comply with Glow Wire Test, see Section 56. Exception No. 3: The insulating material has a HAI 2. (required HWI value is 4 when material class is V-0. or check if the thickness), since no arcing in normal use, so it need not comply with High-Current Arc Resistance to Ignition Test, Section 57.
8.4		Thermal properties
8.4.1	√	All the RTI rating of the insulating materials are higher than 80 degree (C)
8.5		Vulcanized fiber
8.5.1	N/A	No Vulcanized fiber is provided
8.5.2	N/A	No Vulcanized fiber is provided
8.6		Sealing compounds
8.6.1-8.6.2	N/A	Sealing compound is not provided, no need to comply with relevant requirement involved in ASTM 28.
8.7		Fuse enclosures
8.7.1-8.7.2	N/A	Fuse is not provided
9		**Enclosure**
9.1		General
9.1.1	√	Live parts of plug parts are protected against exposure to contact by persons when fully assembled using all essential parts. Exception no. 2: for fixed wiring.
9.1.2-9.1.3	N/A	No accessible dead-metal parts
9.1.4	√	The probe shown in Figure 9.1 is used to judge the accessibility of a live or dead-metal part. The applied force is not more than 13.3N.
9.1.5-9.1.7	N/A	No such separable part
9.2		Male faces and wire terminations
9.2.1	N/A	Not a 15 or 20A attachment plug or current tap
9.2.2	N/A	There is no exposed live part.
9.2.3	N/A	No such parts
9.2.4-9.2.5	√	Probe not access to live parts. The cover is securely fixed for all acceptable wiring.
9.2.6	√	The face plate is secure with the back part.
10		**Current-carrying Parts**
10.1		General
10.1.1	√	Iron or steel is not used for current-carrying parts.
10.1.2	√	The current-carrying parts are not able to be turned by means of general tools due to the appliance shroud mounted on Evaluated appliance.
10.1.3	N/A	No such uninsulated live parts except for female contact of connector
10.2		Contacts (applying to the connector)
10.2.1	N/A	Female contacts of the connector cannot be touched by the probe. Others parts are covered by exception no. 3
11		**Grounding and Dead Metal Parts**
11.1-11.10	N/A	No grounding parts
12		**Terminals**
12.1-12.4		No terminals for end user
13		**Cord Entry and Strain Relief**

Section	Key	Comment
13.1-13.5	N/A	Flexible cord part are considered in the end appliances.
14		**Spacings**
14.1	√	The spacing through air between uninsulated live parts of opposite polarity and between uninsulated live parts and exposed external surface is measured more than 2mm (required 3/36 inch, 1,2mm) for a device rated 250V or less.
14.2	N/A	No such isolated dead-metal part
15		**Assembly**
15.1		General
15.1.1	√	Pre-wired in factory
15.1.2	√	Electrical contact is reliably maintained at any point
15.1.3	√	Live parts is protected against exposure to persons
15.1.4	N/A	Not multiple outlet device
15.1.5	N/A	Female contacts of the connector can be mated with the inlet in right way without exposure of the blades
15.2		Grounding and polarization
15.2.1-15.2.4	N/A	No grounding
15.3		Mating and interchangeability
15.3.1	√	The electrical continuity is automatically established.
15.3.2-15.3.6	√	1-15P receptacles ensuring.
15.4		Fuseholders
15.4.1-15.4.8	N/A	Fuseholder is not provided
15.5		Switches
15.5.1	N/A	The switch is provided between coupler 1 and coupler 2. but it is a information
ATTACHMENT PLUGS AND INLETS (for plug only)		
16		**Insulating material**
16.1	√	The enclosure is measured min. 2.1 mm.
17		**Enclosure**
17.1		General
17.1.1	N/A	Not a general use plug.
17.1.2	√	Measured 44 mm.
17.1.3	N/A	Not a 50A plug
17.2		Grip
17.2.1	N/A	See section 69
17.3		Face size
17.3.1	√	Larger than figure 17.1
18		**Current carrying parts**
18.1	N/A	Not a folded-over plug.
18.2	√	Dimensional requirements fulfilled.
19		**Grounding and dead metal parts**
19.1-19.4	N/A	No grounding or dead metal parts.
20		**Terminals and leads**
20.1-20.5	N/A	All the assembly are pre-wired in factory

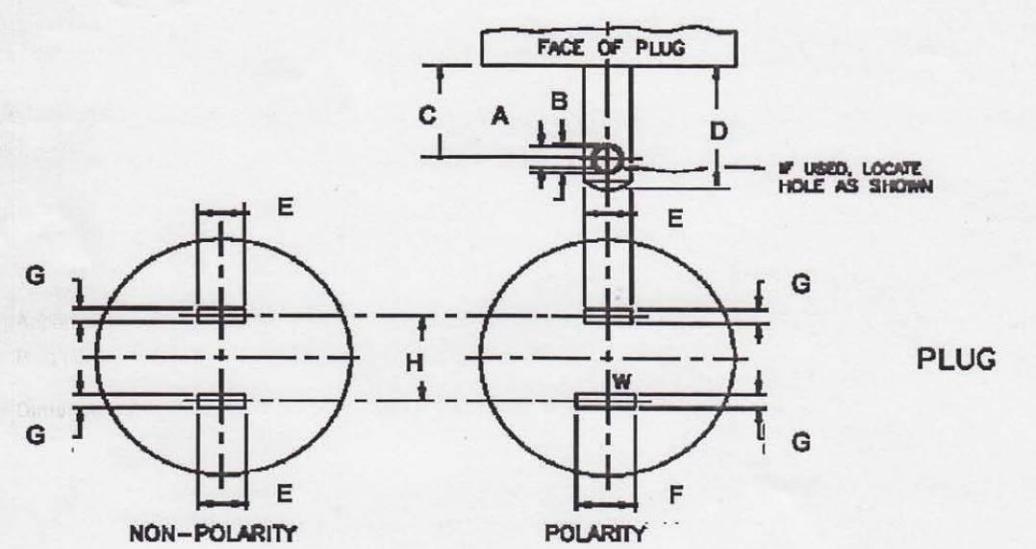
Section	Key	Comment
21		**Assembly**
21.1	√	The blades are held securely in place
21.2	N/A	Not a inlet
21.3-21.4	N/A	The device under evaluate is a plug part not inlet or surface mounting.
21.5	N/A	Not for radio antenna or ground.
22		**Weatherproof type**
22.1-22.2	N/A	Not weatherproof type
23-26	N/A	**CONNECTORS**
27-37	N/A	**RECEPTACLES**
		SELF-CONTAINED RECEPTACLES FOR USE WITHOUT A SEPARATE OUTLET BOX
38-44	N/A	**These sections are applicable for self-contained receptacles.**
		CURRENT TAPS
45	N/A	**The section is applicable for current taps only**
		FLATIRON AND APPLIANCE PLUGS
46-53	N/A	**These sections are applicable for flatiron and appliance plugs.**
PERFORMANCE		
		GENERAL
54		**Representative Devices**
54.1-54.7	G	Noted.
		ALL DEVICES
55		**Comparative Tracking Index Test**
55.1	N/A	Refer to Exception No. 2 of 8.3.2. Not main tests but the test is considered
56		**Glow Wire Test**
56.1-56.2	N/A	Refer to Exception No. 2 of 8.3.2, Not main tests but the test is considered
57		**High-Current Arc Resistance to Ignition Test**
57.1-57.6	G	Refer to Exception No. 3 of 8.3.2
58		**Mold Stress Relief**
58.1-58.2	T	All devices are placed in air oven maintained at a 80℃ for 7 hours. After 58.2, there is not any warpage, shrinkage or other distortion.
58.3	T	Refer to data sheet. Repeat dielectric voltage-withstand test as described in section 60. Not required to be subjected to the humidity conditioning described in 60.1.2.
59		**Moisture Absorption Resistance**
59.1-59.2	T	Refer to data sheet
60		**Dielectric Withstand Test**
60.1-60.2	T	Refer to data sheet
61		**Accelerated Aging Tests**
61.1		General
61.1.1	G	Exception to 8.4.1 for other material is not applicable for the devices under evaluation
61.2		Rubber, EPDM, and TEE compounds
61.2.1-61.2.4	N/A	Not a rubber, EPDM, and TEE compounds
61.3		PVC compounds and copolymers
61.3.1-61.3.2	G	See 61.1.1 shown as above

Section	Key	Comment
62		**Insulation Resistance Test**
62.1-62.6	T	Refer to data sheet
63		**Conductor Secureness Test**
63.1-63.2	N/A	No wire leads provided.
64		**Tightening Torque Test**
64.1-64.2	N/A	Not provide any wire-binding screw
	N/A	ATTACHMENT PLUGS
65		**General**
65.1	G	Noted.
66		**Security of blades test**
66.1-66.2	T	Refer to data sheet
67		**Secureness of cover test**
67.1-67.2	T	Refer to data sheet
68		**Crushing test**
68.1-68.2	T	Refer to data sheet
69		**Attachment plug grip test**
69.1-69.9	T	Refer to data sheet
70		**Integrity of assembly test**
70.1-70.2	N/A	Cord part shall be considered in the end appliance.
71		**Self-hinge Flexing test**
71.1-71.3	N/A	Not self-hinge type
72		**Terminal temperature test**
72.1-72.4	N/A	No terminal for end user.
73		**Fuse-holder temperature test**
73.1-73.8	N/A	No fuse-holder applied.
74-79	N/A	**Pin type terminal**
80-85	N/A	**INLET (applying for inlet)**
86-103	N/A	**CONNECTORS**
104-150	N/A	**RECEPTACLES**
		CURRENT-TAPS
		All devices
151-152	N/A	**These sections are for current-taps**
		Flatiron and appliance plugs.
153-161	N/A	**These sections are applicable for flatiron and appliance plugs.**
RATINGS		
162		**Details**
162.1	G	According to exception no. 2, rating is not required. The special-use device is not intended to ship out solely. (Note: plug is mounted in evaluated appliance).
162.2	√	Rating of 1A 120V~ is evaluated
162.3	√	0.5HP rated.
162.4-162.7	N/A	Not have the specified devices
MARKINGS AND INSTRUCTIONS		
163		**General**

Section	Key	Comment
163.1-163.2	G	The location of the catalog number is not prohibited from appearing according to exceptions of table 163.1 and 163.2
164		**Identification and marking of terminals**
164	G	No any grounding parts and terminals
SUPPLEMENT SA		**(reserved for future use)**
SUPPLEMENT SB		ENCLOSURE TYPES FOR ENVIRONMENTAL PROTECTION
SB1-SB7	N/A	The requirements of SB don't apply to the device under evaluation for it's intended for indoor use only (refer to SB1.1)
SUPPLEMENT SC		**MARINE SHORE POWER INLETS**
SC1-SC12	N/A	These sections are for marine shore power inlets
SUPPLEMENT SD		**HOSPITAL GRADE DEVICES**
SD1-SD30	N/A	These sections are for hospital grade devices

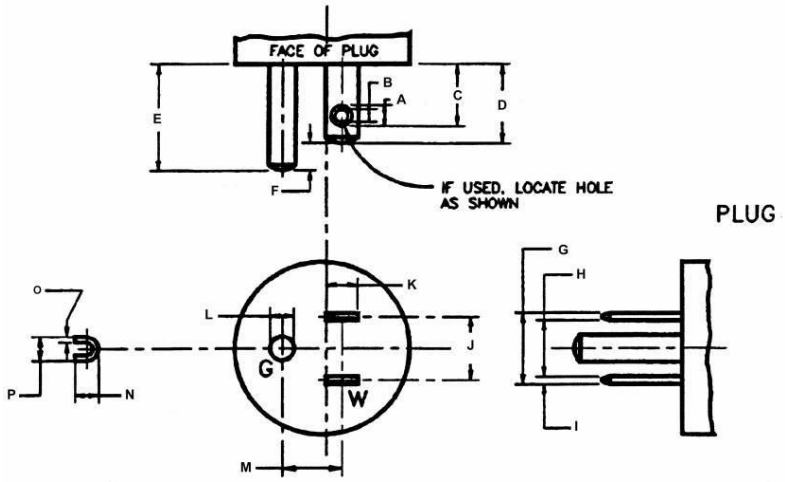
Appendix: Dimensions of NEMA 1-15 plug portion

Class II



Symbol	Requirement (mm)	Measured (mm)		Symbol	Requirement (mm)	Measured (mm)
A	0.125 (3.18 max)	3.15		E	6.10 – 6.60	6.42
B	0.156 (3.96 max)	3.91		F	7.80 – 8.18	--
C	11.40 – 12.16	11.77		G	1.40 – 1.65	1.45
D	18.24 – 15.88	16.28		H	12.57 – 12.83	12.58
Perimeter faces to the plug blades shall not be less than 7.9 mm (intended for use with children's toys) or 5.1 mm from any point of either blade						Complied

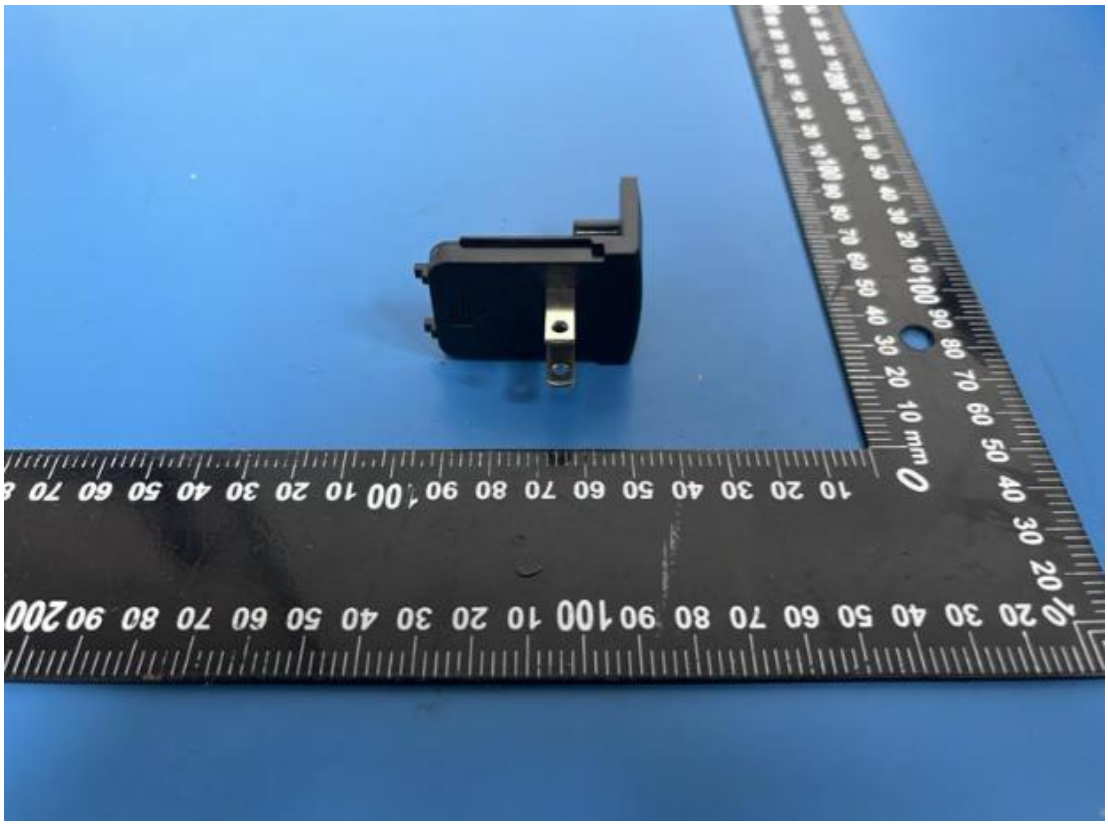
Class I



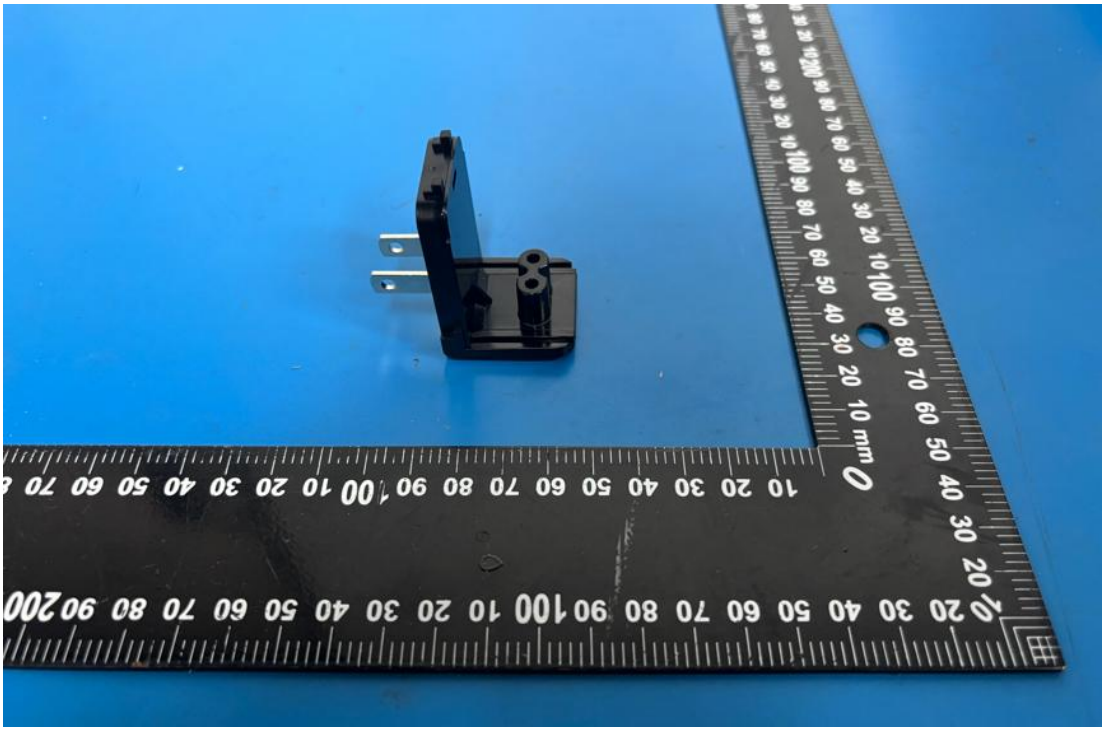
Symbol	Requirement inch (mm)	Measured (mm)	Symbol	Requirement inch(mm)	Measured
A	0.125 (3.18 max)	3.15	I	1.65 ≥I≥ 1.40	1.44
B	0.156 (3.96 max)	3.91	J	12.82≥ I ≥12.57	12.30
C	13.76≥ C ≥ 13.00	13.10	K	6.60≥K ≥6.10	6.20
D	18.24≥ D ≥ 15.88	16.28	L	4.82≥L≥4.67	4.80
E	E≤21.41	20.28	M	12.01≥ M≥ 11.76	11.95
F	F≥3.18	4.0	N	4.82≥N ≥ 4.67	4.70
G	G ≤14.60	11.70	O	O≥ 0.96	-
				O≥0.68	-
H	H ≥10.80	11.15	P	4.82≥P ≥ 4.67	4.72
PeriKmeter faces to the plug blades shall not be less than 7.9 mm from any point of either blade					COMPLIED

Appendix: Photos for NEMA 1-15 plug portion.

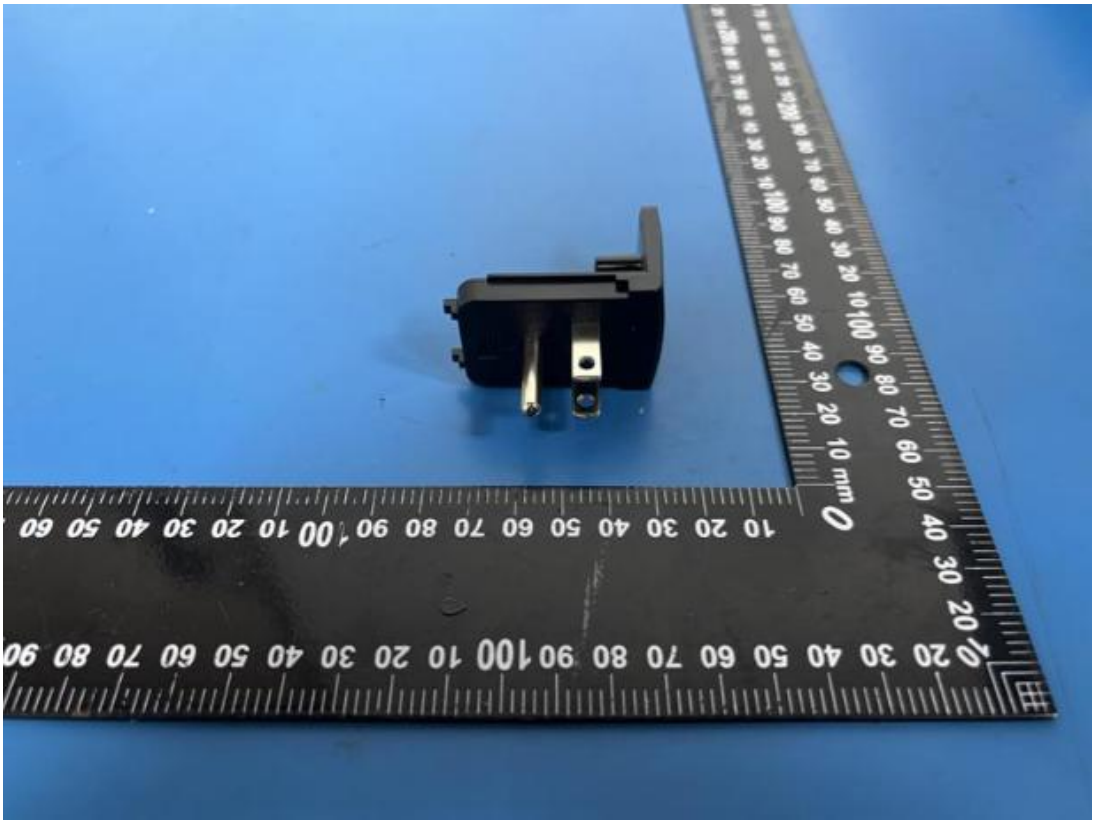
View of R-NA-2



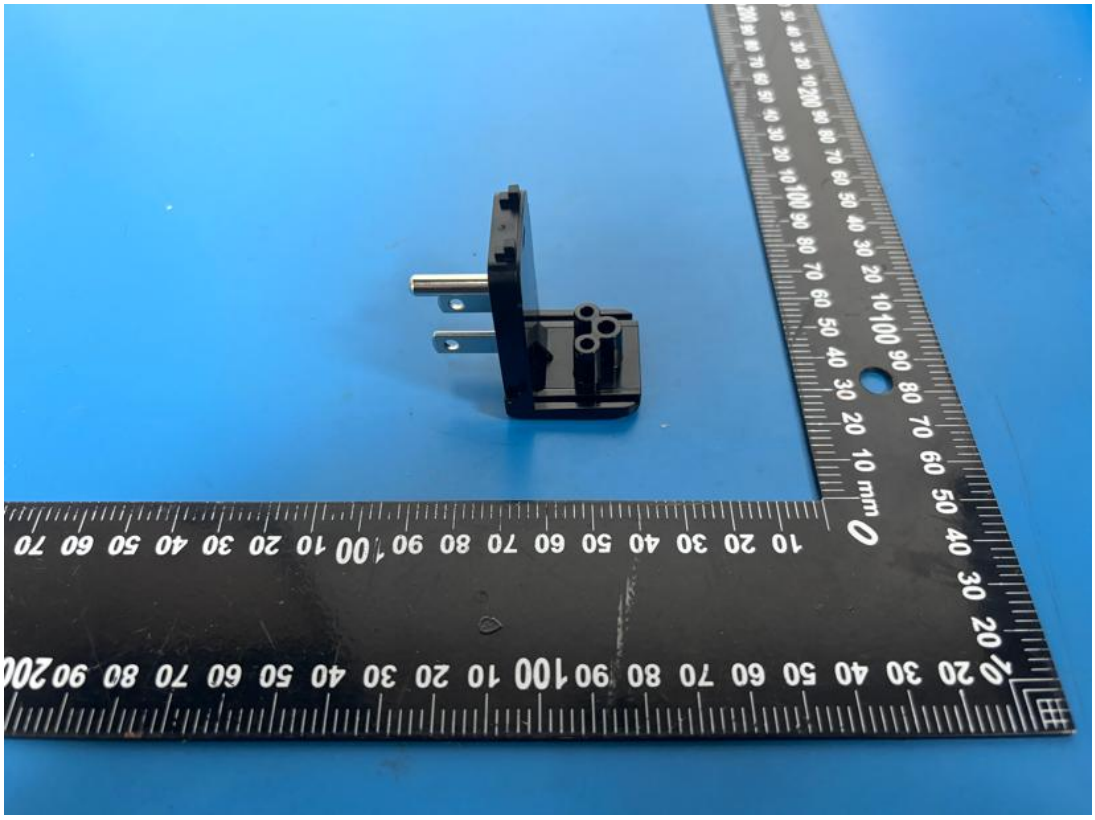
View of R-NA-2



View of R-NA-3



View of R-NA-3



View of connect to end product



View of connect to end product



Appendix: Equipment combined with BS-plug portion

Supplementary tests on plug portion according to BS1363: Part 3 + Amd 9543 + Amd 14225 + Amd 14540 + Amd 17437 + Amd A4

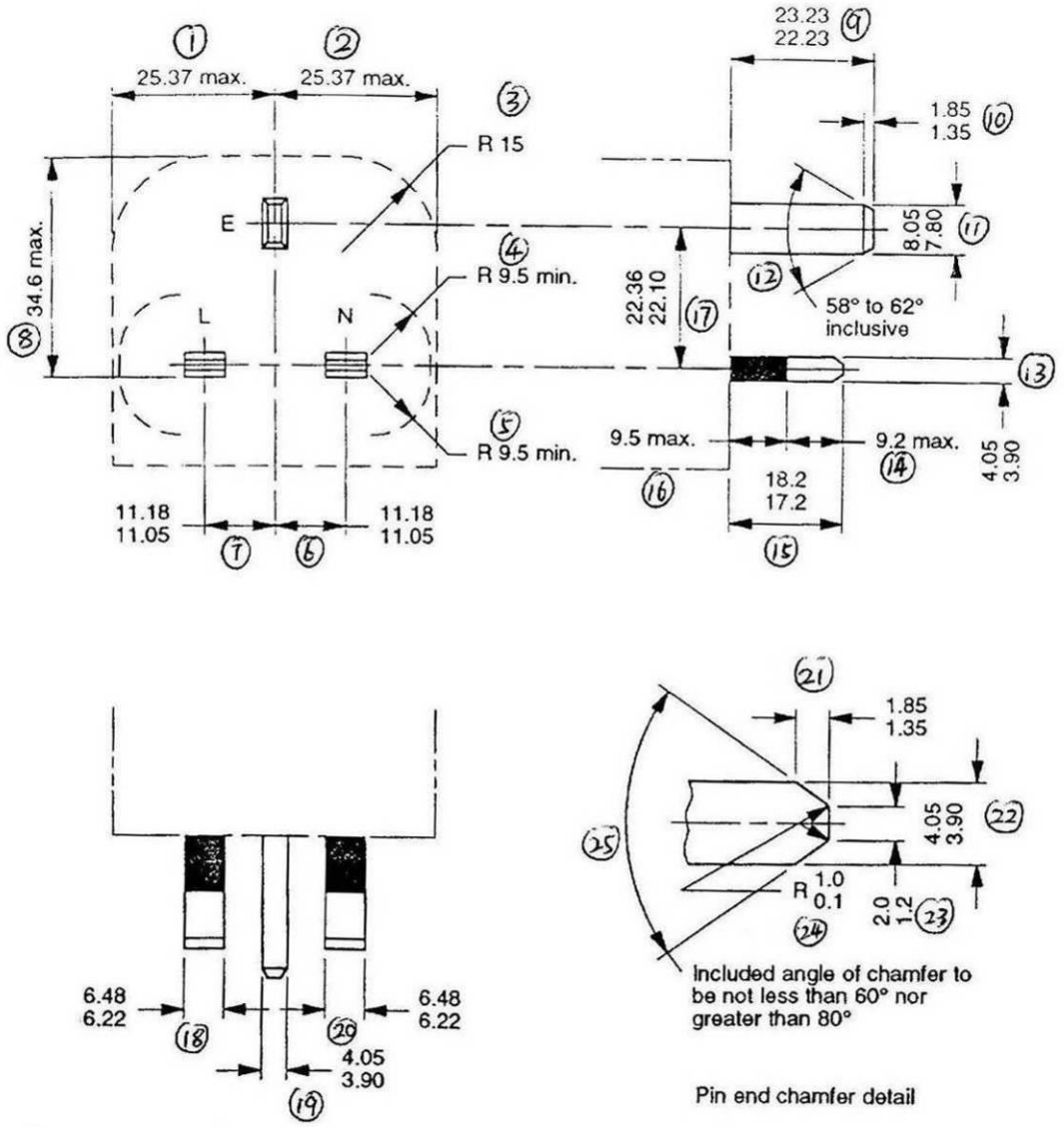
Clause	Requirement - Test	Result-Remark	Verdict
12.1	Dimensions (Checked according to figure 4)	See dimensions of BS1363 plug portion	P
12.2	Outline of plug shall not exceed the dimension shown in Figure 4 for a distance of not less than 6.35 mm from the engagement surface	Complied	P
	Pin disposition, length and body outline shall be checked by use of the gauge shown in Figure 5		P
12.3	L/N pin was more than 9.5 mm from the periphery of the plug measured along the engagement surface	Complied	P
12.7	The base and cover of rewirable plugs shall be adaptor plugs having the cover fixed by screws shall be firmly secured to each other. It shall not be possible to remove the cover unless the adaptor is completely withdrawn from the socket-outlet. Fixing screws shall be captive. The test is carried out using apparatus similar to that shown in Figure 6		N/A
12.9	After the temperature rise test (clause 16). Use test probe 11 of BS EN 61032:1998 is applied a force 30 -5/0 N. During and after the test, it was not possible to touch the live parts.		P
12.11	Adaptor plug pins shall be constructed of brass, except for sleeves of pins as specified in 12.18		P
	All exposed surfaces of the adaptor plug pins shall be smooth and free from burrs or sharp edges and other irregularities which could cause damage or excessive wear to corresponding socket contacts or shutters.		P
	Those surfaces of the non-solid adaptor plug pins which are visible when the adaptor is correctly assembled shall be free of apertures.		P
	All seams and joints of non-solid adaptor plug pins shall be closed over their entire length.		P
	For solid pins, conformity shall be checked by 12.11.4.1.		P

Clause	Requirement - Test	Result-Remark	Verdict
	For non-solid pins, compliance shall be checked by 12.11.4.2.		N/A
	Adaptors with non-solid pins shall not cause excessive wear to socket contacts or shutters of socket-outlets in accordance with BS 1363-2:1995.		N/A
	Adaptor plug pins shall have adequate mechanical strength to ensure that they cannot be distorted by twisting. Apply a torque 1N.m ± 10% for 60 +5/0 S. After each pin has been separately twisted, the plug was fit the gauge in fig. 5. Repeated with opposite direction.		P
12.13	Adaptors shall be so designed that when fully assembled the pins are adequately retained in position such that there is no likelihood of them becoming detached from the adaptor during normal use.		P
	Each pin is subjected for 60 +5/0 S to a pull of 100 -2/0 N without jerks in the direction of the major axis. The plug is mounted using the steel plate shown in fig.7. The apparatus is placed within an oven and the pull is applied at least 1 h after the plug body has attained the test temperature of 70°C ± 5°C while maintained at this temperature. After the test, the plug pin shall fit into the gauge and comply with 12.2.1.		P
12.14	The degree of flexibility of mounting of the plug pins or the angular movement of the pins in the base shall be not greater than 3° 30'. See fig. 8.		P
	Test procedure refers to standard. During each test, the declination from the horizontal measured on the scale shall not exceed 3° 30' and comply with 12.2.1.		P
12.18	Live and neutral adaptor plug pins shall be fitted with insulating sleeves. See fig.4. Sleeves shall not be fitted to any earthing adaptor plug pin.		P
12.19.3	Abrasion test – 10 000 times in each direction (20 000 movements) at a rate of 25 movements to 30 movements per min. (fig. 9). After the test, the sleeve shall show no damage and also shall not have been penetrated or creased, satisfy the tests in 12.19.2.		P

Clause	Requirement - Test	Result-Remark	Verdict
13.10	The total mass of the equipment with all specified connectors shall not exceed 800 g. The torque exerted on a socket shall not exceed 0.7 N·m. The test apparatus as Figure 37	Compliance with the main standard	N/A
	Additional: Products with torque exceeding 0.25Nm do not comply with the main standard hence full compliance with the main standard cannot be claimed		N/A
Additional test for ISODs according to BS1363: Part 1 + Amd 9541 + Amd 14539 + Amd 17435 + Amd A4			
12.9.1	All exposed surfaces of plug pins shall be smooth and free from burrs or sharp edges and other irregularities which could cause damage or excessive wear to corresponding socket contacts or shutters.		P
12.9.4	Apply a force of 1100 -10/0N at a rate not exceeding 10 mm/min. After this test the plug should fit the gauge to fig. 5.		P
	Apply a force of 400 +10/0N at a rate 10 ± 2 mm/min. Deflection shall not exceed 1.5 mm. After this test the plug should fit the gauge to fig. 5.		P
12.9.6	ISODs shall have adequate mechanical strength to ensure that they cannot be distorted by twisting. Apply a torque 1N.m ± 10% for 60 +5/0 S. After each pin has been separately twisted, the plug shall fit the gauge in fig. 5. Repeated with opposite direction.		P

Appendi: Dimensions of BS1363 plug portion

Class I

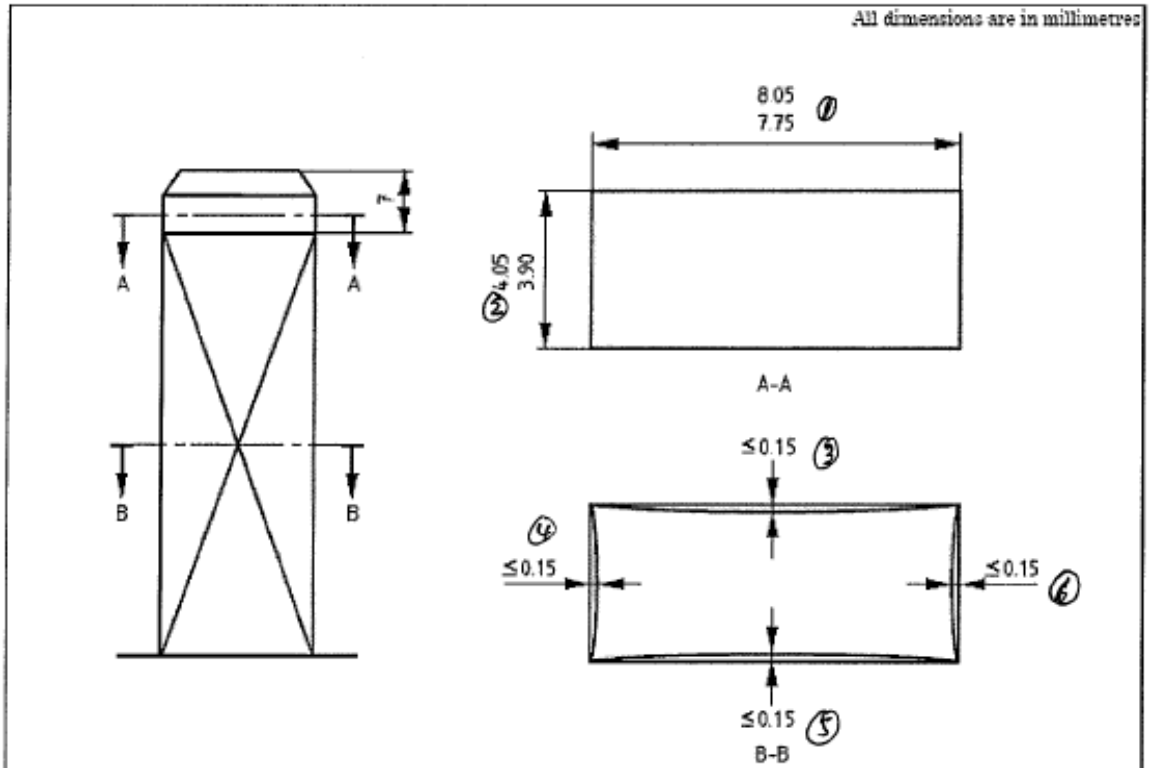


All dimensions are in millimetres.

Figure 4. Dimensions and disposition of pins (see clause 12)

Dimensions Checked by means of measurement according to BS1363-3 Fig. 4 (see appendix no. 2)			
Position	Requirement (mm)	Measured (mm)	Verdict
1	25.37max	24.13	P
2	25.37max	24.13	P
3	R15min	R17	P
4	R9.5min	R9.6	P
5	R9.5min	R9.6	P
6	11.05-11.18	11.05	P

7	11.05-11.18	11.05	P
8	34.6max	32.74	P
9	22.23-23.23	22.63	P
10	1.35-1.85	1.50	P
11	7.80-8.05	7.95	P
12	58°-62° inclusive	60°	P
13	3.90-4.05	3.96	P
14	9.2max	8.93	P
15	17.2-18.2	17.86	P
16	9.5max	8.99	P
17	22.10-22.36	22.21	P
18	6.22-6.48	6.26	P
19	3.90-4.05	4.03	P
20	6.22-6.48	6.26	P
21	1.35-1.85	1.81	P
22	3.90-4.05	3.98	P
23	1.2-2.0	1.24	P
24	R0.1-R1.0	R0.55	P
25	60°-80° inclusive	68°	P
Outline of the plug not exceed the dimension shown in figure 4 at least 6.35mm from the engagement surface		Complied	P



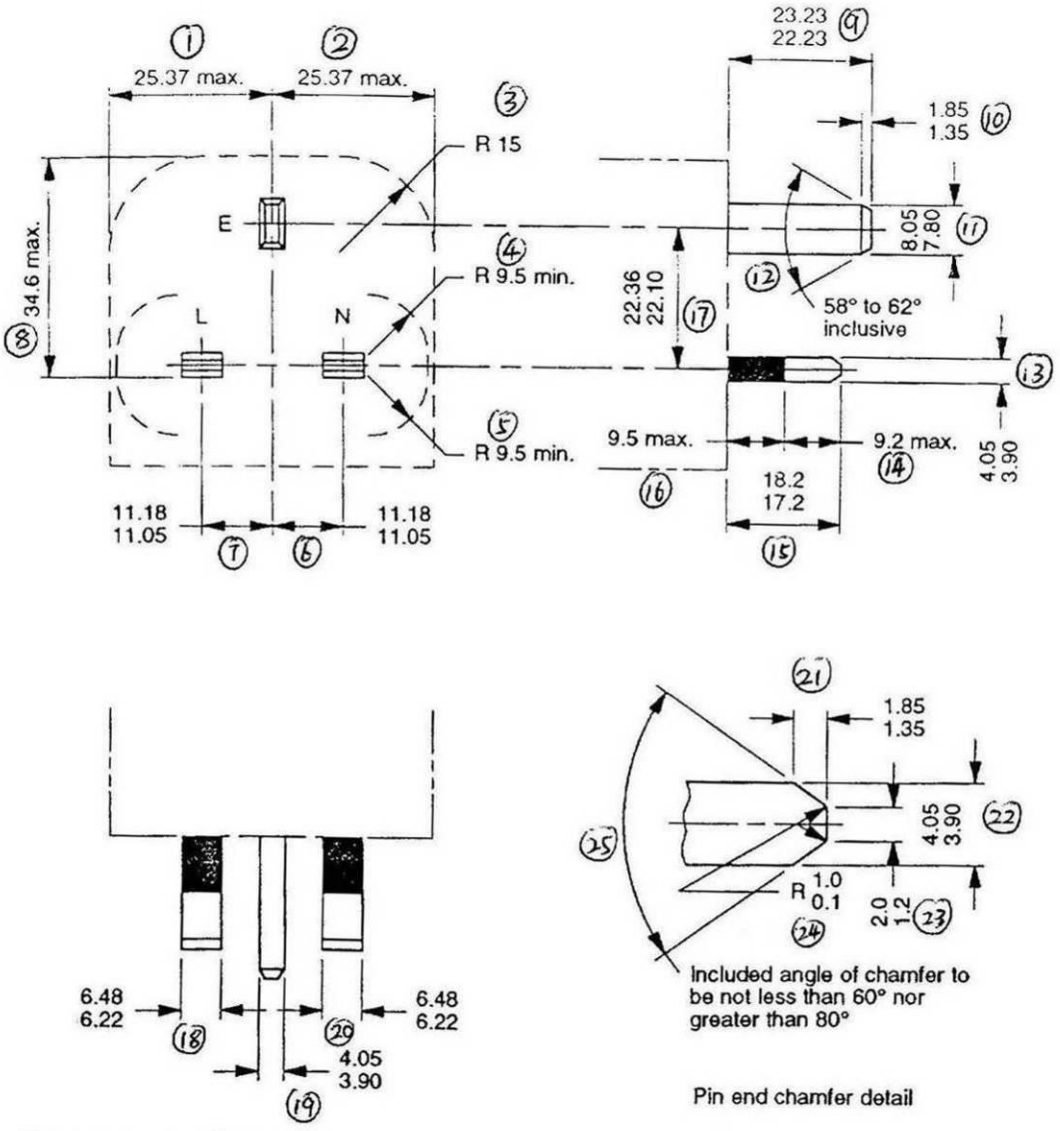
Solid insulated shutter opening device (ISOD)

NOTE Section A-A to be measured away from chamfer as shown.

Figure 4b) — Concave shrinkage allowance for ISODs

	Dimensions Checked by means of measurement according to BS1363-1 Fig. 4b		
Position	Requirement (mm)	Measured (mm)	Verdict
1	7.75-8.05	7.97	P
2	3.90-4.05	3.97	P
3	≤ 0.15	0.1	P
4	≤ 0.15	0.1	P
5	≤ 0.15	0.1	P
6	≤ 0.15	0.1	P

Class II



All dimensions are in millimetres.

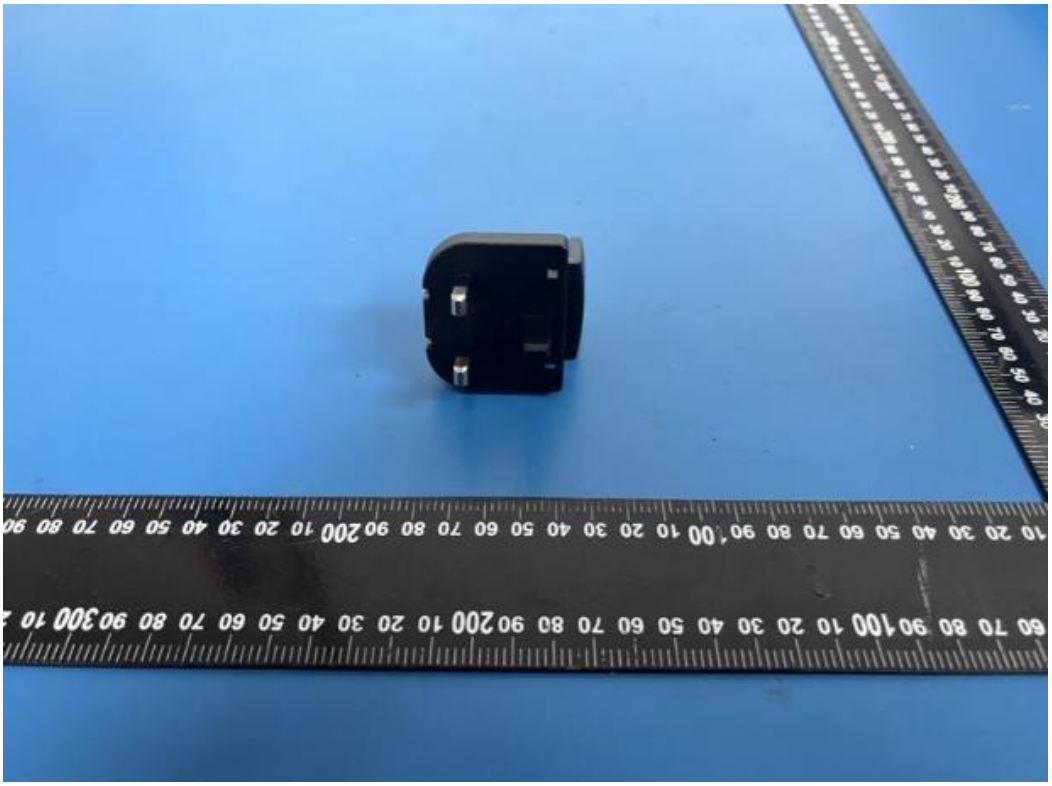
Figure 4. Dimensions and disposition of pins (see clause 12)

Dimensions Checked by means of measurement according to BS1363-3 Fig. 4 (see appendix no. 2)			
Position	Requirement (mm)	Measured (mm)	Verdict
1	25.37max	-	-
2	25.37max	-	-
3	R15min	R17	P
4	R9.5min	R9.6	P
5	R9.5min	R9.6	P
6	11.05-11.18	11.05	P

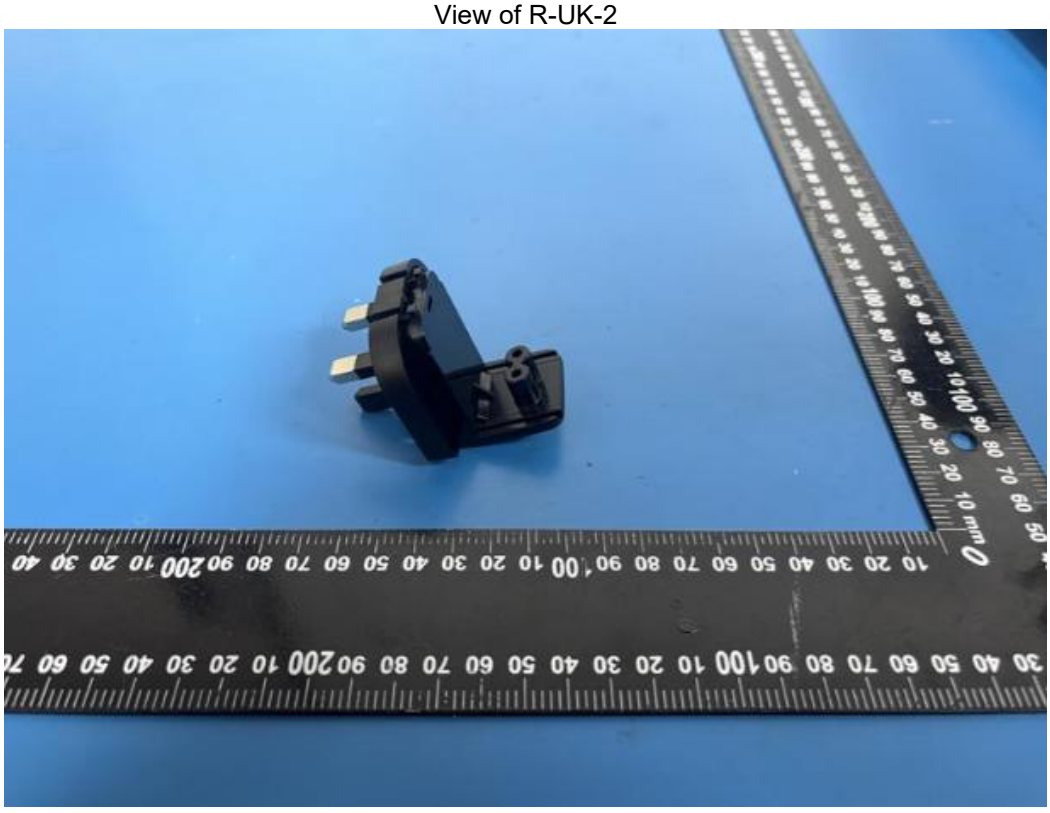
7	11.05-11.18	11.05	P
8	34.6max	32.85	P
9	22.23-23.23	-	-
10	1.35-1.85	-	-
11	7.80-8.05	-	-
12	58°-62° inclusive	-	-
13	3.90-4.05	3.95	P
14	9.2max	8.91	P
15	17.2-18.2	17.64	P
16	9.5max	8.97	P
17	22.10-22.36	-	-
18	6.22-6.48	6.30	P
19	3.90-4.05	-	-
20	6.22-6.48	6.34	P
21	1.35-1.85	-	-
22	3.90-4.05	-	-
23	1.2-2.0	-	-
24	R0.1-R1.0	-	-
25	60°-80° inclusive	-	-
Outline of the plug not exceed the dimension shown in figure 4 at least 6.35mm from the engagement surface		Complied	P

Appendix: Photo for BS1363 plug

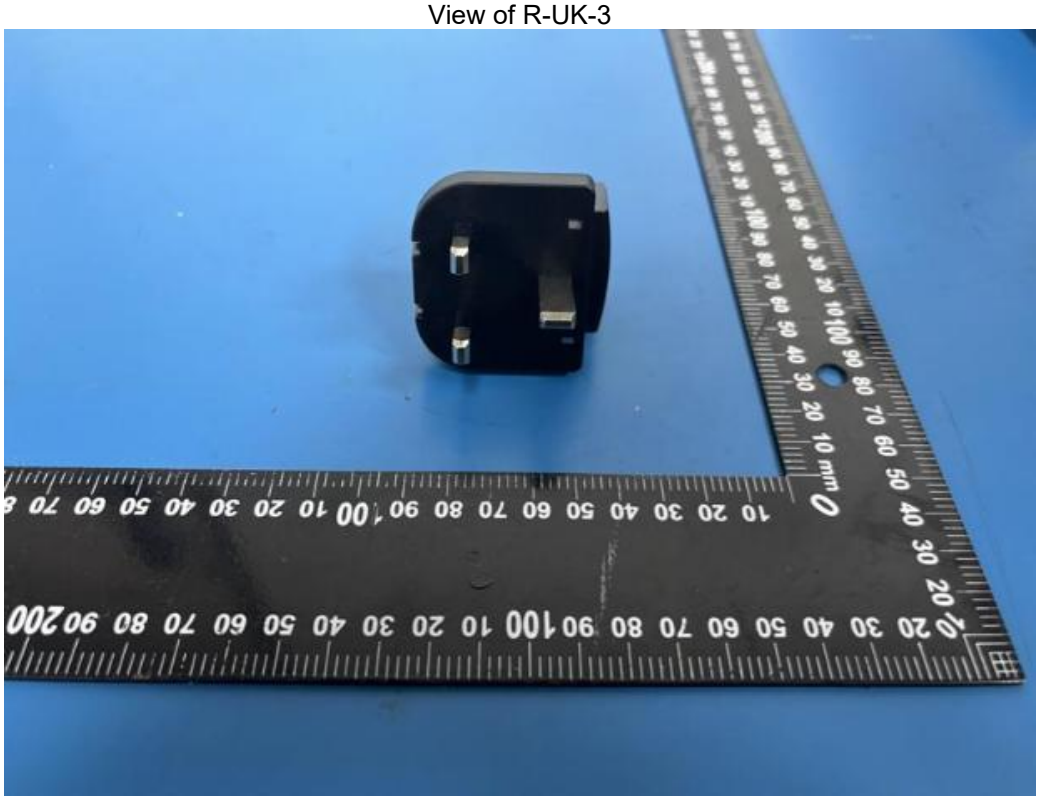
View of R-UK-2



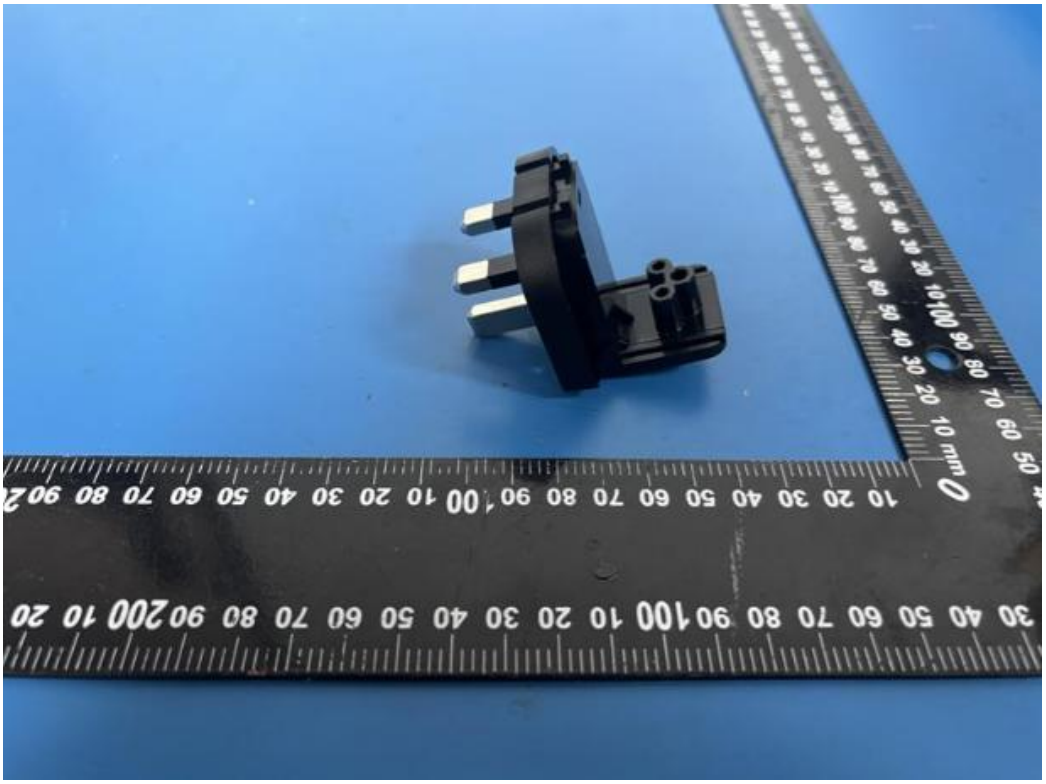
View of R-UK-2



View of R-UK-3



View of R-UK-3



View of connect to end product



View of connect to end product

