

File E170507
Project 08ME09223

October 7, 2008

REPORT

ON

UNLISTED COMPONENT - Attachment Plugs, Fuseless

For Use Only In

APPLICANT'S CLASSIFIED, LISTED OR RECOGNIZED PRODUCTS,
SYSTEMS OR COMPONENTS

Globtek Inc
Northvale, NJ

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DESCRIPTION

PRODUCT COVERED:

USU, CNU - Unlisted Component, Appliance Inlet, Cat. No. Q-C18(R).

ELECTRICAL RATING:

<u>Cat. No.</u>	<u>Config.</u>	<u>Voltage Rating, V</u>	<u>Current Rating, A</u>
Q-C18(R)	C14	250 ac	3

TECHNICAL CONSIDERATION (NOT FOR FIELD REPRESENTATIVE'S USE):

Use - For use only in (or with) Applicant's Direct-Plug-In Switching Power Adapter, Power supplies, where the acceptability is determined by Underwriters Laboratories Inc.

USU indicates investigation to the US Standard for Attachment Plugs and Receptacles, UL 498, Fourteenth Edition.

CNU indicates investigation to the Canadian Standard for the Safety of Special Use Attachment Plugs, Receptacles, and Connectors, CSA C22.2 No. 182.3-M1987, First Edition.

Conditions of Acceptability - When installed in the end product, consideration shall be given to the following:

1. The suitability of the mounting means shall be determined in each end-use application.
2. The suitability at electrical connection to the terminal shall be determined in each end-use application.
3. Temperature on body of the component shall not exceed 60 °C during the end-use application. The maximum temperature rise on terminal of the component shall not exceed 30 °C during end-use application.
4. This device shall be installed in compliance with the enclosure, mounting, spacing, casualty, and segregation requirements in each end-use application.

CONSTRUCTION DETAILS:

Refer to the following photo and descriptive indices for construction details.

Spacings - A minimum spacing of 1.2 mm for devices rated 250 V or less, minimum of 3.2 mm for devices rated greater than 250 V provided through air and over surface between live metal parts of opposite polarity and between live parts and exposed dead-metal parts.

Markings - See Section General.

Tolerances - Unless otherwise specified, all dimensions are nominal.

CAT. NO. Q-C18(R)- FIG. 1

General - The general design, shape, and arrangement shall be as shown except where specific variations are described.

1. Body - Molded of Polyphenylene Ether + Polystyrene (PPE+PS), R/C (QMFZ2), manufactured by Sabic Innovative Plastics China Co Ltd, (E161723), Cat. No. SE1X(GG)(f1), rated V-1, 105 °C, measured minimum 1.75 mm thick. See ILL. 1 for dimensional details.
2. Line/Neutral Contacts - Two provided, copper alloy with nickel plating, secured to body by molding. See ILL. 2 for dimensional details.

TEST RECORD NO. 1

SAMPLES:

Production Samples of Appliance Inlet as indicated below and constructed as described herein, was submitted by the manufacturer for examination and test.

<u>Cat. Nos. Tested</u>	<u>Insulating Body Material (#)</u>	<u>Tests Conducted</u>
Q-C18(R)	A	ALL

(#) - Code for Insulating Body Material.

- A. Sabic Innovative Plastics China Co Ltd, (E161723), Cat. No. SE1X(GG)(f1).

GENERAL:

Tests conducted in accordance with UL 498 that were considered representative of the same tests required by Canadian Standard, CSA C22.2 No. 182.3-M1987 are identified with dual paragraph/clause references in the following tables. Where test names differ or additional tests were conducted in accordance with Canadian Standard, CSA C22.2 No. 182.3-M1987, they are identified by the Standard and paragraph/clause information enclosed by parenthesis.

Test results relate only to the items tested.

The following tests were conducted.

UL 498, Section / CSA C22.2 No. 182.3-M1987, Clause	Test	Notes
60 / 6.6	Dielectric Voltage Withstand Test / (Dielectric Strength)	2000 V
58 & 60 /	Mold Stress Relief Test; D. V. W.	70 °C, 7 h; 2000 V
62 /	Insulation Resistance Test	
82 / 6.5	Terminal Temperature Test / (Temperature)	3 A, measured maximum temperature rise 1.7 °C over ambient

The test methods and results of the above tests have been reviewed and found in accordance with the requirements in the Standard for Safety for Attachment plugs and Receptacle, UL 498, Fourteenth Edition and the Canadian Standard for Special Use Attachment Plugs, Receptacles, and Connectors, CSA C22.2 No. 182.3-M1987, First Edition.

TEST RECORD SUMMARY:

The results of this investigation indicate that the products evaluated comply with the applicable requirements in the Standards noted below and, therefore, such products are judged eligible to bear the special identification marking described on the Conclusion Page of this Report.

Standard	Title	Edition	Revision Date
UL 498	Attachment plugs and Receptacles	Fourteenth	November 16, 2007
CSA C22.2 No. 182.3-M1987	Special Use Attachment Plugs, Receptacles, and Connectors	First	September 1989

Any information and documentation provided to you involving UL Mark services are provided on behalf of Underwriters Laboratories Inc. (UL) or any authorized licensee of UL.

CONCLUSION

Samples of the component covered by this Report have been found to comply with the requirements covering the category for factory-installed components for this Applicant's Listed, Classified or Recognized basic equipment where the acceptability of the products in combination is determined by Underwriters Laboratories Inc. and where the products are judged to be eligible for Unlisted Component Recognition and Follow-Up Service. The manufacturer is authorized to use the specific identification marking described in the Follow-Up Service Procedure on such products which comply with said Procedure and any other applicable requirements. Only those products which properly bear the above specific identification are considered as Unlisted Components by Underwriters Laboratories Inc. Any information and documentation involving UL Mark services are provided on behalf of Underwriters Laboratories Inc. (UL) or any authorized licensee of UL.

Report by:
LEOM ZHANG
Project Engineer

Reviewed by:
MAGGIE SHEN
Project Engineer

BERG LIU
Engineer

Number of pages in this package 15 [including additional pages -]

TEST LOCATION:	
☒ UL or Affiliate	☐ WTDP ☐ CTDP ☐ OTHER
Company Name	UL-CCIC Company Limited
Address	Building 3, New Hi-Tech Industrial Park 98 Hengshan Road Suzhou 215009, China

CLIENT INFORMATION	
Company Name	Globtek Inc
Address	186 Veterans Dr Northvale, NJ 07647 United States

AUDIT INFORMATION:			
☒ Description of Tests	Per Standard	UL 498	Edition Fourteenth, last revised November 16, 2007
		CSA C22.2 No. 182.3-M1987	First, last revised September, 1989
☒ Tests Conducted by +	Jerry Du	<i>Jerry Du</i>	
	Printed name	Signature	
☐ UL Staff witnessing testing (WTDP only)			
	Printed name	Signature	
Reviewed and accepted by qualified Project Handler	BERG LIU / LEOM ZHANG	<i>Berg Liu / Leom Zhang</i>	
	Printed Name	Signature	

TESTS TO BE CONDUCTED:			
Test No.	Done	Test Name	☒ Comments/Parameters ☐ Tests Conducted by ++
1	X	DIELECTRIC WITHSTAND TEST, UL 498 (DIELECTRIC STRENGTH, CSA C22.2 No. 182.3-M1987)	Passed
2	X	MOLD STRESS RELIEF TEST; D.V.W.	Passed
3	X	INSULATION RESISTANCE TEST	Passed
4	X	TERMINAL TEMPERATURE TEST, UL 498 (TEMPERATURE, CSA C22.2 No. 182.3-M1987)	Passed

[X] Tests conducted in accordance with UL 498 that were considered representative of the same tests required by CSA C22.2 No. 182.3-M1987 are identified with dual paragraph/clause references in the title of each test on the individual datasheets. Where test names differ or additional test were conducted in accordance with CSA C22.2 No. 182.3-M1987, they are identified by the standard and paragraph/clause information enclosed by parenthesis.

Test Equipment- See "TEST EQUIPMENT INFORMATION"

Samples - See "TEST SAMPLE IDENTIFICATION"

Instructions -

+ - When all tests are conducted by one person, printed name and signature can be inserted here instead of including printed name and signature on each page containing data. Must indicate number of pages in the data package.

++ - When test conducted by more than one person, printed name and signature of person conducting the test can be inserted next to the test name instead of including printed name and signature on each page containing data. Must indicate number of pages in the data package.

Special Instructions -

Indication of acceptability or unacceptability of Results on the following data sheets is not for lab staff use.

Unless specified otherwise in the individual Methods, the tests shall be conducted under the following ambient conditions. Confirmation of these conditions shall be recorded at the time the test is conducted.

Ambient		Relative		Barometric	
Temperature, C	<u>25 ± 5</u>	Humidity, %	<u>N/A</u>	Pressure, mBar	<u>N/A</u>

Tested by: _____ Date _____

Printed Name

Signature

TEST EQUIPMENT INFORMATION

See LPM for Meter
Tools Use
Jerry Du 2008-09-25

Inst. ID No.	Instrument Type	Test Number +, Test Title or Conditioning	Function /Range	Last Cal. Date	Next Cal. Date
N/A	N/A	N/A	N/A	N/A	N/A

Jerry Du
2008-09-25

+ - If Test Number is used, the Test Number must be identified on the data sheet pages or on the Data Sheet Package cover page.

The following additional information is required when using client's or rented equipment, or when a UL ID Number for an instrument number is not used. The Inst. ID No. below corresponds to the Inst. ID No. above.

Inst. ID No.	Make/Model/Serial Number/Asset No.
-	-

The M&TE used for tests [have] [~~do not have~~] minimum required accuracy and range/functions, and [were] [~~were not~~] calibrated to assure these levels.

Jerry Du 2008-09-25

[X] Test equipment information is recorded on UL's Laboratory Project Management (LPM)/Laboratory Equipment Management (LEM) database. (This statement may be selected only if datasheets are completed electronically at a UL facility)

Tested by: _____
Printed Name

Signature

See individual test datasheet

TEST SAMPLE IDENTIFICATION:

The table below is provided to provide correlation of sample numbers to specific product related information. Refer to this table when a test identifies a test sample by "Sample No." only.

Sample Card No.	Date Received	[X] Test No.	Sample No.	Manufacturer, Product Identification and Ratings
1051803-001	2008-08-28	1	U189 - U194	Globtek Inc, Appliance Inlet, Cat. No. Q-C18(R), 250 V, 3 A.
1051803-001	2008-08-28	2	U195 - U200	Globtek Inc, Appliance Inlet, Cat. No. Q-C18(R), 250 V, 3 A.
1051803-001	2008-08-28	3	U201 - U206	Globtek Inc, Appliance Inlet, Cat. No. Q-C18(R), 250 V, 3 A.
1051803-001	2008-08-28	4	U207 - U212	Globtek Inc, Appliance Inlet, Cat. No. Q-C18(R), 250 V, 3 A.

+ - If Test Number is used, the Test Number or Numbers the sample was used in must be identified on the data sheet pages or on the Data Sheet Package cover page.

[] Sampling Procedure -

Project No. 08ME09223

File E170507

Page 5

Tested by: _____ Date _____

Printed Name

Signature

2008-09-25

DIELECTRIC WITHSTAND TEST:

UL 498, Section 60

DIELECTRIC STRENGTH:

CSA C22.2 No. 182.3-M1987, Clause 6.6

METHOD

Six previously untested samples of Cat. No. Q-C18(R) were subjected to this test.

Each device was subjected to a 50 -- 60 Hz essentially sinusoidal potential of 2000 V applied between live parts of opposite polarity and between live parts and grounding or dead metal parts. The test voltage was increased from 0 to 2000 V at a uniform rate and as rapid as was consistent with its value being correctly indicated by a voltmeter, and maintained at 2000 V for one minute.

RESULTS

[X] There was no damage, arcing or dielectric breakdown during the application of the test potential.

[] [Damage] [Arcing] [Dielectric breakdown] was noted on sample no(s).
_____ after application of the test potential.

LAB USE ONLY:

Check for arcing, dielectric breakdown or other damage. Check off as appropriate:

- (NB) - No breakdown
- (B) - Breakdown. Record breakdown voltage at bottom of page.
- (A) - Arcing
- (D) - Other damage. Describe at bottom of page.

Lab ambient condition
22°C & 70%RH
2008-09-25

Project No. 08ME09223

File E170507

Page 6

Tested by: _____
Printed Name Signature

Date _____

2008-09-25

DIELECTRIC WITHSTAND TEST: (CONT'D)

UL 498, Section 60

DIELECTRIC STRENGTH:

CSA C22.2 No. 182.3-M1987, Clause 6.6

Potential Measured Between	Sample No.					
	U189	U190	U191	U192	U193	U194
L1 - L2	☒ NB	☒ NB	☒ NB	☒ NB	☒ NB	☒ NB
	☐ B	☐ B	☐ B	☐ B	☐ B	☐ B
	☐ A	☐ A	☐ A	☐ A	☐ A	☐ A
	☐ D	☐ D	☐ D	☐ D	☐ D	☐ D
L1 - L3	☐ NB	☐ NB	☐ NB	☐ NB	☐ NB	☐ NB
	☐ B	☐ B	☐ B	☐ B	☐ B	☐ B
	☐ A	☐ A	☐ A	☐ A	☐ A	☐ A
	☐ D	☐ D	☐ D	☐ D	☐ D	☐ D
L1 - L4	☐ NB	☐ NB	☐ NB	☐ NB	☐ NB	☐ NB
	☐ B	☐ B	☐ B	☐ B	☐ B	☐ B
	☐ A	☐ A	☐ A	☐ A	☐ A	☐ A
	☐ D	☐ D	☐ D	☐ D	☐ D	☐ D
L2 - L3	☐ NB	☐ NB	☐ NB	☐ NB	☐ NB	☐ NB
	☐ B	☐ B	☐ B	☐ B	☐ B	☐ B
	☐ A	☐ A	☐ A	☐ A	☐ A	☐ A
	☐ D	☐ D	☐ D	☐ D	☐ D	☐ D
L2 - L4	☐ NB	☐ NB	☐ NB	☐ NB	☐ NB	☐ NB
	☐ B	☐ B	☐ B	☐ B	☐ B	☐ B
	☐ A	☐ A	☐ A	☐ A	☐ A	☐ A
	☐ D	☐ D	☐ D	☐ D	☐ D	☐ D
L3 - L4	☐ NB	☐ NB	☐ NB	☐ NB	☐ NB	☐ NB
	☐ B	☐ B	☐ B	☐ B	☐ B	☐ B
	☐ A	☐ A	☐ A	☐ A	☐ A	☐ A
	☐ D	☐ D	☐ D	☐ D	☐ D	☐ D
L All -	☒ NB	☒ NB	☒ NB	☒ NB	☒ NB	☒ NB
Ground,	☐ B	☐ B	☐ B	☐ B	☐ B	☐ B
Dead Metal	☐ A	☐ A	☐ A	☐ A	☐ A	☐ A
	☐ D	☐ D	☐ D	☐ D	☐ D	☐ D

Jerry Du
2008-09-25

Tested by: _____
Printed Name Signature

Date _____

2008-09-25

MOLD STRESS RELIEF TEST:

UL 498, Sections 58 & 60

METHOD

Six previously untested samples of Cat. No. Q-C18(R) were subjected to this test.

The devices were placed into a circulating-air oven maintained at a temperature of 70°C (158°F) for 7 hours. The devices were removed from the oven and allowed to cool to room temperature before being examined for evidence of warpage, shrinkage or distortion. The probe shown in UL 498, Figure 9.1 (Articulated probe with web stop) was employed during the examination to check for exposure of live parts (other than exposed blades).

Each device was then subjected to a 50 -- 60 Hz essentially sinusoidal potential of 2000 V applied between live parts of opposite polarity and between live parts and grounding or dead metal parts. The test voltage was increased from 0 to 2000 V at a uniform rate and as rapid as was consistent with its value being correctly indicated by a voltmeter, and maintained at 2000 V for one minute.

RESULTS

Lab ambient condition
22°C & 59%RH
2008-09-25

[X] There was no warpage, shrinkage or other distortion resulting in exposed uninsulated live parts, defeated integrity of the enclosure, interference with the device's intended use, reduction of required spacings, or other evidence of damage that could increase the risk of fire or electric shock. There was no damage, arcing or dielectric breakdown during the application of the test potential.

[] Distortion was noted on sample no(s). _____ that resulted in

[] making live parts (other than exposed wiring terminals) or internal wiring accessible to contact by the probe shown in UL 498, Figure 9.1 (Articulate probe with web stop)

[] defeating the integrity of the enclosure

[] interfering with the operation, function or installation of the device

[] a condition resulting in the device not complying with applicable strain relief requirements

[] a reduction of spacings below the minimum acceptable values

[] other evidence of damage that could increase the risk of fire or electric shock, as follows: _____

[] [Damage] [Arcing] [Dielectric breakdown] was noted on sample no(s). _____ after application of the test potential.

Project No. 08ME09223

File E170507

Page 8

Tested by: _____
Printed Name Signature

Date _____

2008-09-25

MOLD STRESS RELIEF TEST: (CONT'D)

UL 498, Sections 58 & 60

LAB USE ONLY:

Check for evidence of warpage, shrinkage or other distortion. Describe any unacceptable results at bottom of page.

Sample No.	Warpage		Shrinkage		Distortion		Probe Contacted Live Parts	
	No	Yes	No	Yes	No	Yes	No	Yes
<u>U195</u>	[X]	[]	[X]	[]	[X]	[]	[X]	[]
<u>U196</u>	[X]	[]	[X]	[]	[X]	[]	[X]	[]
<u>U197</u>	[X]	[]	[X]	[]	[X]	[]	[X]	[]
<u>U198</u>	[X]	[]	[X]	[]	[X]	[]	[X]	[]
<u>U199</u>	[X]	[]	[X]	[]	[X]	[]	[X]	[]
<u>U200</u>	[X]	[]	[X]	[]	[X]	[]	[X]	[]

Oven aging start time:10:00
Oven aging end time :17:00
Jerry Du 2008-09-25

Tested by: _____

Date _____

Printed Name

Signature

2008-09-25

MOLD STRESS RELIEF TEST: (CONT'D)

UL 498, Sections 58 & 60

LAB USE ONLY:

Check for arcing, dielectric breakdown or other damage. Check off as appropriate:

(NB) - Pass

(B) - Breakdown. Record breakdown voltage at bottom of page.

(A) - Arcing

(D) - Other damage. Describe at bottom of page.

Potential Measured Between	Sample No.					
	U195	U196	U197	U198	U199	U200
L1 - L2	☒ NB	☒ NB	☒ NB	☒ NB	☒ NB	☒ NB
	☐ B	☐ B	☐ B	☐ B	☐ B	☐ B
	☐ A	☐ A	☐ A	☐ A	☐ A	☐ A
	☐ D	☐ D	☐ D	☐ D	☐ D	☐ D
L1 - L3	☐ NB	☐ NB	☐ NB	☐ NB	☐ NB	☐ NB
	☐ B	☐ B	☐ B	☐ B	☐ B	☐ B
	☐ A	☐ A	☐ A	☐ A	☐ A	☐ A
	☐ D	☐ D	☐ D	☐ D	☐ D	☐ D
L1 - L4	☐ NB	☐ NB	☐ NB	☐ NB	☐ NB	☐ NB
	☐ B	☐ B	☐ B	☐ B	☐ B	☐ B
	☐ A	☐ A	☐ A	☐ A	☐ A	☐ A
	☐ D	☐ D	☐ D	☐ D	☐ D	☐ D
L2 - L3	☐ NB	☐ NB	☐ NB	☐ NB	☐ NB	☐ NB
	☐ B	☐ B	☐ B	☐ B	☐ B	☐ B
	☐ A	☐ A	☐ A	☐ A	☐ A	☐ A
	☐ D	☐ D	☐ D	☐ D	☐ D	☐ D
L2 - L4	☐ NB	☐ NB	☐ NB	☐ NB	☐ NB	☐ NB
	☐ B	☐ B	☐ B	☐ B	☐ B	☐ B
	☐ A	☐ A	☐ A	☐ A	☐ A	☐ A
	☐ D	☐ D	☐ D	☐ D	☐ D	☐ D
L3 - L4	☐ NB	☐ NB	☐ NB	☐ NB	☐ NB	☐ NB
	☐ B	☐ B	☐ B	☐ B	☐ B	☐ B
	☐ A	☐ A	☐ A	☐ A	☐ A	☐ A
	☐ D	☐ D	☐ D	☐ D	☐ D	☐ D
L All -	☒ NB	☒ NB	☒ NB	☒ NB	☒ NB	☒ NB
Ground,	☐ B	☐ B	☐ B	☐ B	☐ B	☐ B
Dead Metal	☐ A	☐ A	☐ A	☐ A	☐ A	☐ A
	☐ D	☐ D	☐ D	☐ D	☐ D	☐ D

Jerry Du
2008-09-25

Tested by: _____
 Printed Name Signature

Date _____

2008-09-25

INSULATION RESISTANCE TEST:

UL 498 Section 62

METHOD

Six samples of Cat. No. Q-C18(R) were subjected to insulation resistance measurement by means of a direct current magneto megohmmeter capable of open circuit output of 500 V or by equivalent equipment, applied between (a) live parts of opposite polarity, (b) live parts and grounded metal parts, and (c) live parts and exposed surfaces. The six samples were immersed in an open container of No. 7 lead shot, (approximate dia 0.10 in or 2.5 mm) such that the shot contacted the plug surface but not the plug blades. Cord holes or other openings through which the shot could enter were carefully plugged with a high-resistance insulating material. All rubber parts of the device if any, were kept at room temperature for at least 48 h prior to the insulation resistance measurements.

RESULTS

Lab ambient condition
 22°C & 70%RH
 2008-09-25

- [X] There was no reading less than 100 megohms.
- [] There was a reading less than 100 megohms for sample(s) _____.

LAB USE ONLY:

Record test values in megaohms. Note - All rubber parts of the device (if any) are to be kept for at least 48 h at room temperature prior to the Insulation Resistance Test.

Measurement Made Between:

Sample No.	(L1-L2)	(L2-L3)	(L3-L1)	(L3-L4)	(L4-L1)	L(all)-Gnd	(L-(all)-Dead Metal)
U201	>100						>100
U202	>100						>100
U203	>100						>100
U204	>100						>100
U205	>100						>100
U206	>100						>100

Jerry Da
 2008-09-25

Tested by: _____
Printed Name Signature

Date _____

2008-09-26

TERMINAL TEMPERATURE TEST:

UL 498, Section 82

TEMPERATURE:

CSA C22.2 No. 182.3-M1987, Clause 6.5

METHOD

Six previously untested samples of Inlet Cat. No. Q-C18(R) were subjected to this test.

The six samples were connected in a series circuit using at least 12-inch (300 -mm) or greater length.

The inlets were short- circuited across the blades with the shortest possible lengths of No. 18 AWG solid copper wire.

A current of 3 A was passed through the test circuit. The devices were caused to carry the test current for at least four hours until temperature stabilization was reached.

Thermocouples were affixed to the wiring terminals of the inlet.

RESULTS

The following temperature rises were recorded:

Sample No.	Max Terminal Rise, °C (Line)	Max Terminal Rise, °C (Neutral)	Ambient°C
U207	CH1:1.6	CH2:1.5	25
U208	CH3:1.6	CH4:1.4	25
U209	CH5:1.3	CH6:1.7	25
U210	CH7:1.7	CH8:1.6	25
U211	CH9:1.6	CH10:1.7	25
U212	CH11:1.5	CH12:1.7	25

[X] In all cases, temperature rises remained within acceptable limits.

[] Temperature rises exceeding 30°C were recorded on sample no(s).

Lab ambient condition
21°C & 58%RH
2008-09-26

Tested by: _____
Printed Name Signature

Date _____

2008-09-26

TERMINAL TEMPERATURE TEST: (CONT'D)

UL 498, Section 82

TEMPERATURE:

CSA C22.2 No. 182.3-M1987, Clause 6.5

LAB USE ONLY:

Before beginning the test, check the following:

1. Measure and record test current through load.

Test Current - 3 A

2. Neither the plug blades nor the cord connector or receptacle contacts are to be adjusted, lubricated or otherwise conditioned during this test.

Thermal stabilization has occurred when three successive readings, taken at intervals of not less than 10 minutes, show no further temperature increases. Record the data on the following table. NOTIFY ENGINEER IMMEDIATELY IF TEMPERATURES EXCEED PERMISSIBLE LIMITS.

Sample No.	Temperature Measurements °C					
	Reading 1 Time: <u>12:50</u>		Reading 2 Time: <u>13:00</u>		Reading 3 Time: <u>13:10</u>	
	L1	L2	L1	L2	L1	L2
U207	25.3	25.1	25.4	25.2	25.4	25.2
U208	25.2	25.2	25.3	25.2	25.3	25.2
U209	25.1	25.4	25.2	25.5	25.1	25.5
U210	25.4	25.3	25.5	25.4	25.4	25.3
U211	25.4	25.5	25.4	25.5	25.4	25.5
U212	25.3	25.5	25.3	25.5	25.2	25.5
Ambient	24.1	24.1	24.1	24.1	24.1	24.1

Tested by: _____

Printed Name

Signature

Date

2008-09-26

Test Configuration

Test ID 08ME09223[080926_090433]
Project No. 08ME09223
File No. E170507
Model No. Q-C18(R)
Sample No. U207-U212
Test Item Temperature Test
Technician Jerry du
Scan Interval (Sec) 30
Normalize Temp to (C) 25
Termination Condition Manual (Jerry du)

Start Time 2008/09/26 09:04:42
End Time 2008/09/26 13:11:32
Duration 04:06:50

Equipment No.	Calibration Date	Calibration Due Date
SUB-LE-DL033	2008/09/04	2009/09/03

Page _____

MX100	Ch	Description	Ambient	Max.	Time	Ambient	Final	Max temp. rise	Normalize	Normalize	Stable temp. 1	Stable temp. 2	Stable temp. 3
SUB-LE-DL	1			24.6	10:58	23.0	25.4	1.6	26.6	27	-	-	-
SUB-LE-DL	2			24.1	10:36	22.6	25.2	1.5	26.5	27	-	-	-
SUB-LE-DL	3			25.0	11:30	23.4	25.3	1.6	26.6	27	-	-	-
SUB-LE-DL	4			23.6	10:14	22.2	25.2	1.4	26.4	26	-	-	-
SUB-LE-DL	5			23.6	10:22	22.3	25.1	1.3	26.3	26	-	-	-
SUB-LE-DL	6			25.1	11:26	23.4	25.5	1.7	26.7	27	-	-	-
SUB-LE-DL	7			25.1	11:30	23.4	25.4	1.7	26.7	27	-	-	-
SUB-LE-DL	8			25.0	11:28	23.0	25.3	1.6	26.6	27	-	-	-
SUB-LE-DL	9			24.6	10:58	23.4	25.4	1.6	26.6	27	-	-	-
SUB-LE-DL	10			25.1	11:28	23.4	25.5	1.7	26.7	27	-	-	-
SUB-LE-DL	11			24.6	11:03	23.1	25.2	1.5	26.5	27	-	-	-
SUB-LE-DL	12			25.1	11:27	23.4	25.5	1.7	26.7	27	-	-	-
SUB-LE-DL	13		v	24.2	13:11	24.2	24.2	0.0	25.0	25	-	-	-

X _____

Project No. 08ME09223

File E170507

Page 14

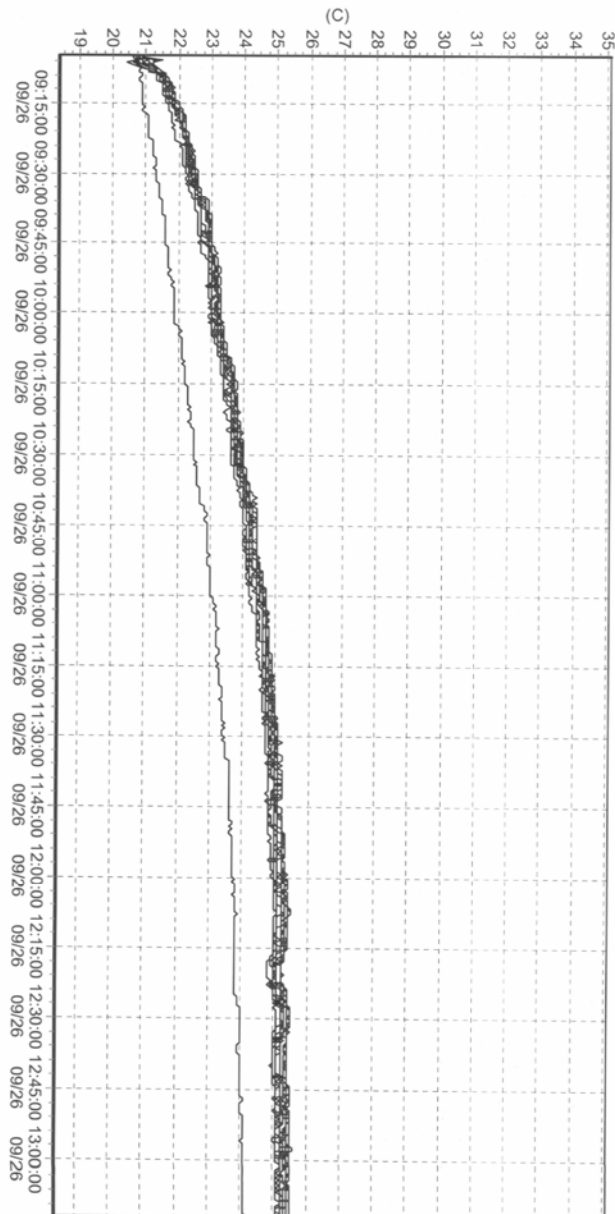
Tested by:

Date

Printed Name

Signature

2008-09-26



Test ID 08ME09223[080926_090433]
Project No. 08ME09223
File No. E170507
Model No. Q-C18(R)
Sample No. U207-U212
Test Item Temperature Test

Technician jerry du
Scan Interval (Sec) 30
Normalize Temp. to 25
Termination Condition Manual (jerry du)
Start Time 2008/09/26 09:04:42
End Time 2008/09/26 13:11:32

X

Page

Project No. 08ME09223

File E170507

Page 15

Tested by: _____
Printed Name Signature

Date _____

2008-09-26

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Project No. 08ME09223

File E170507

Page 1

Compliance

Review

Conducted by: Leom Zhang / Berg LiuLeom Zhang / Berg LiuDate 2008-09-03

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When a measurement is needed to determine compliance with a clause the actual measured value must be recorded in the space provided. A simple 'Yes' / 'No' response is not sufficient. (See 'UL Certification Program - Work Instructions for Completion of Construction Review Datasheets (CRD) For C-UL Mark' (00-OP-W0038) for details).

CONSTRUCTION COMPLIANCE REVIEW RECORD

Sample Identification -

Sample Card No.	Date Received	Sample No.	Manufacturer, Product Identification and Ratings
1051803-002	2008-08-28	S1	Globtek Inc, Appliance Inlet, Cat. No. Q-C18(R), 250 V, 3 A.

☐ Indications of compliance apply to all samples identified with specific indications of compliance included for construction differences of the different samples.

Measurement Instrument Information -

Inst. ID No.	Instrument Type	Function/Range	Last Cal. Date	Next Cal. Date
-	-	-	-	-

The following additional information is required when using client's or rented equipment, or when a UL ID Number for an instrument number is not used. The Inst. ID No. below corresponds to the Inst. ID No. above.

Inst. ID No.	Make/Model/Serial Number/Asset No.
-	-

☒ Measurement instrument information is recorded on UL's Laboratory Project Management (LPM) database. (This statement may be selected only if CRDs are completed at a UL facility)

Project No. 08ME09223

File E170507

Page 2

Compliance

Review

Conducted by: Leom Zhang / Berg Liu

Leom Zhang / Berg Liu

Date 2008-09-03

Printed Name

Signature

CONSTRUCTION COMPLIANCE REVIEW:

The sample was reviewed for compliance with the construction requirements in the following Standard and compliance with applicable construction requirements is noted below.

Standard CSA C22.2 No. 182.3, Special Use Attachment
Plugs, Receptacles, and Connectors Edition 1987

Clause/Par. Reference and Construction Requirement	Comply			Comments/Measurements	Inst. Id No.
	Yes	No	N/A		
4. Construction					
4.1 Component Parts Use and Ratings	X				
4.2 Interchangeability	X				
4.3 Insulating Materials					
4.3.1 Insulating Materials Depended Upon for Maintenance of Electrical Spacings or that May Be Exposed to Arcing When the Plug is Disconnected from the Power Source	X			R/C (QMFZ2), PPE+PS molded, Cat. No. SE1X(GG)(f1), Sabic Innovative Plastics China Co Ltd, (E161723), rated V-1, 105 °C, measured minimum thickness of 1.75 mm.	SUB-LT-CA014
4.3.2 Insulating Materials in Contact with Current-Carrying Parts	X				
4.3.3 CTI rating for Insulating Materials Min CTI of 175 (PLC 3)	X			CTI = 1	
4.3.4 Flammability rating for Insulating Materials Min rating = HB	X			V-1 for material at the thickness 1.5 mm	SUB-LT-CA014
4.3.5 Insulating Material Attributes Comparison	X			HWI = 0, HAI = 0, RTI = 105	

Project No. 08ME09223

File E170507

Page 3

Compliance

Review

Conducted by: Leom Zhang / Berg Liu

Leom Zhang / Berg Liu

Date 2008-09-03

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Signature

Clause/Par. Reference and Construction Requirement	Comply			Comments/Measurements	Inst. Id No.
	Yes	No	N/A		
4.4 Protection Against Corrosion	X				
4.5 Current-Carrying Parts					
4.5.1 Iron or Steel (Plain or Plated) Not Used for Parts Depended Upon to Carry a Significant Portion of the Current Exception - plated or stainless steel for high temperature applications and bonding terminals	X			COPPER ALLOY	
4.5.2 Retention of Live Parts for Alignment Purposes	X				
4.5.3 Live Parts Secured to Ensure Spacings in Table 1 are maintained	X			ALL LIVE PARTS SECURED IN PLACE SPACING BETWEEN UNINSULATED LIVE METAL PART AN UNINSULATED GROUNDED METAL PART: MIN. 12.00 MM.	SUB-LT-CA014
4.5.4 Exception to 4.5.3 Permitting Smaller Spacings If Dielectric Strength Tested			X	COMPLIED WITH 4.5.3	
4.6 Grounding Parts are First Pair to Make Contact For Grounding Continuity			X		
4.7 Terminal Parts					
4.7.1 Ampacity for terminals and leads to correlate with current rating	X			Will conduct temperature test wired with 18 AWG	
4.7.2 Receptacle Terminals					

Project No. 08ME09223

File E170507

Page 4

Compliance

Review

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Leom Zhang / Berg Liu

Date 2008-09-03

Printed Name

Signature

Clause/Par. Reference and Construction Requirement	Comply			Comments/Measurements	Inst. Id No.
	Yes	No	N/A		
4.7.2.1 Location and Protection of Field Wiring Terminals of a Receptacle			X	Not receptacle	
4.7.2.2 Assembly of an Original Equipment Manufacturers' Installed Device With Crimp Type Terminals			X	Not provide crimp type terminals	
4.7.2.3 Wire Binding Screws Used in Making Electrical Connections Thread into metal and comply with Table 2			X	Not provide wire binding screws	
4.7.2.4 Terminal Plates Through Which Binding Head or Machine Screws are Threaded Min 2 full threads and 0.76 mm thick			X	Not provide wire binding screws	
4.7.2.5 Terminations of a Field Wiring Device comply with CSA C22.2 No. 65 or C22.2 No 188			X	Not for field wiring	
4.8 Contacts					
4.8.1 Material for Contacts to be Copper, Copper Alloy, or Equivalent Material.	X			COPPY ALLOY	
4.8.2 Protection for Exposed Live Contacts and Terminals of a Receptacle or Connector, Rated Above 30 V rms, When Intended for Use External to the End Equipment			X	DETERMINATED BY END PRODUCT	

Project No. 08ME09223

File E170507

Page 5

Compliance

Review

Conducted by: Leom Zhang / Berg Liu

Leom Zhang / Berg Liu

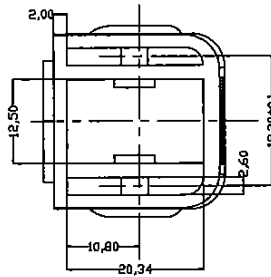
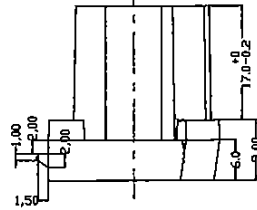
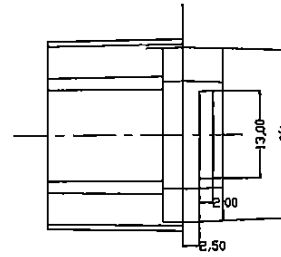
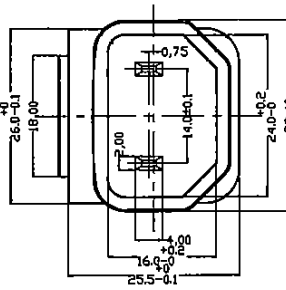
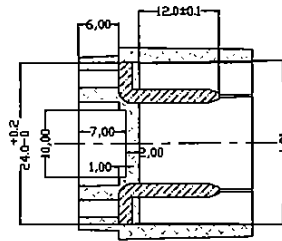
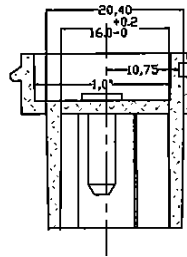
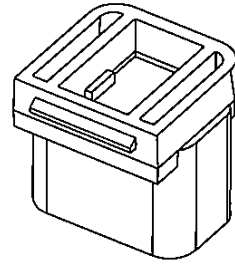
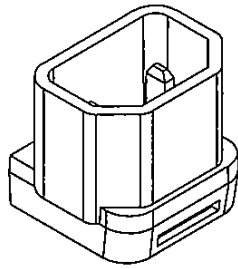
Date 2008-09-03

Printed Name

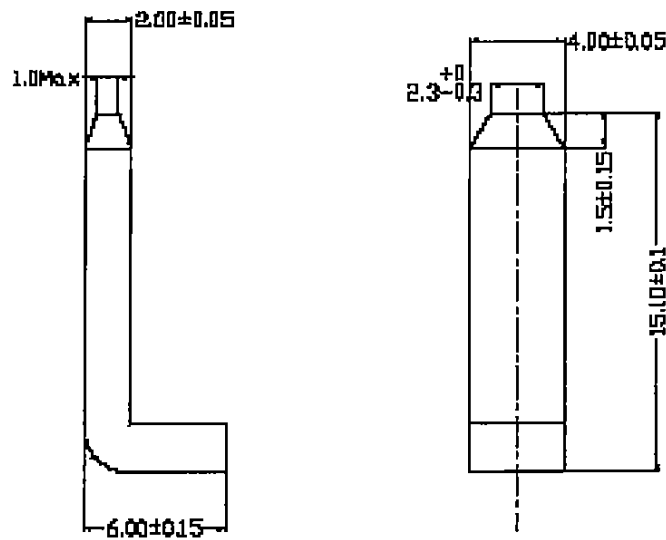
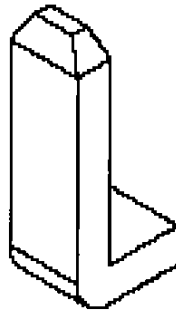
Signature

Clause/Par. Reference and Construction Requirement	Comply			Comments/Measurements	Inst. Id No.
	Yes	No	N/A		
4.8.3 Types 1A, 2 and 3 Devices Not to Have Exposed Contacts During Engagement or Withdrawal.	X			Type 1A, rated 250 V ac, 3 A	
4.9 Polarization	X				
4.10 Weatherproof Devices			X	Not weatherproof devices	





UNIT: mm.



UNIT: mm.

	DASH NO.		PART NO.		REV.		DESCRIPTION		NOTES	
	TABULATION BLOCK									
	REVISION		A	A			TOLERANCES:		 GlobTek, Inc. www.globtek.com	
	SHEET		1	2			DECIMALS ANGULAR .XX ± .01 °/1° .XXX ± .005			
	INIT. BY:		DATE:		MILLIMETERS		ANGULAR		Q-C18(R) Blades	
DRAWN:		DATE:		.XX ± .01		°/1°				
APRVD BY:		DATE:		.XXX ± .013		SIZE A				
				FSCN No.:		SCALE:				