

DECLARATION OF CONFORMITY



Name of company: CINCON ELECTRONICS CO., LTD.
Address: No. 8-1 Fu Kung RD. Fu Hsing Park, Fu Hsing Hsiang,
Chang Hua Hsien, Taiwan, R.O.C.

Declares that the component product

DC-DC Converters

CHB100-110S12; CHB100-110S15; CHB100-110S24; CHB100-100S48;

referred to this declaration conforms with the standard(s) or directive(s) as far as applicable:

Product Meet Safety Standard	:	EN60950-1	2006/A12: 2011+A2:2013
EMC Standards	:	EN50121-1	2006
		EN50121-3-2	2006
		EN55011	2009+A1: 2010

Directives	:	Low Voltage Directive	2014/35/EU
		EMC Directives	2014/30/EU
		RoHS Directive	2011/65/EU

This component product must be used within other equipment and must not be operated as a stand alone product.

The company named above will keep on file for review the following technical documentation:

- Technical drawings
- Other technical documentation

Manufacturer

Signature: Johnson Cheng

Date: Oct. 17. 2016

Name: Johnson Cheng / President

VIBRATION AND SHOCK TEST REPORT

Company : Cincon Electronics Co., Ltd.

Address : No. 8-1 Fu Kung Rd. Fu Hsiig Ind. Park , Fu Hsing Hsiang ,
Chang Hua Hsien, Taiwan, R.O.C.

Sample Name : CFB200-110S15 / CHB100-110S12 / CQB150W-110S12 /
CHB100-110S15 / CQB150W-110S28

Date Received : MAR 21, 2016

Date Tested : MAR 21, 2016 ~ MAR 24, 2016

TESTING LABORATORY IS ACCREDITED BY:

ISO 17025 accredited in respect of laboratory is approved by TAF

Certificate No. : L3146-151112

ISTA certified laboratory (ID: ST-9389)

WE HEREBY CERTIFY THAT:

The test(s) shown in the attachment were conducted according to the indicating procedures. We assume full responsibility for the accuracy and completeness of these tests and vouch for the qualifications of all personnel performing them.

	Name	Signature	Date
Test Engineer	Curtis Chen	<i>Curtis Chen.</i>	<i>Mar 26, 2016</i>
Manager	Injel Chen	<i>Injel Chen</i>	<i>Mar 28, 2016</i>

NOTE :

1. This report will be invalid if reproduced in part or altered in any way.
2. This report refers only to the specimen(s) submitted to test, and is invalid if used otherwise.
3. This report is ONLY valid with the examination seal and signature of the institute.
4. The tested specimen(s) will only be preserved for thirty days from the date issued, if not collected by the applicant.



TABLE OF CONTENTS

1. GENERAL INFORMATION

1.1 DESCRIPTION OF UNIT	2
1.2 UNIT OPERATING CONDITION	2

2. VIBRATION TEST

2.1 TEST EQUIPMENT	3
2.2 LABORATORY AMBIENCE CONDITION	3
2.3 REFERENCE DOCUMENT	3
2.4 TEST CONDITION	3
2.5 SUMMARY OF TEST	6

3. SHOCK TEST

3.1 TEST EQUIPMENT	7
3.2 LABORATORY AMBIENCE CONDITION	7
3.3 REFERENCE DOCUMENT	7
3.4 TEST CONDITION	7
3.5 SUMMARY OF TEST	7

ATTACHMENTS	8
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1. GENERAL INFORMATION

1.1 DESCRIPTION OF UNIT

Manufacturer : Cincon Electronics Co., Ltd.

Test item, Sample name and Sample quantity : (Total of 15 units)

Test item	Sample name	Sample quantity
Vibration test	CHB100-110S12	3 units
	CQB150W-110S12	3 units
Shock test	CFB200-110S15	3 units
	CHB100-110S15	3 units
	CQB150W-110S28	3 units

1.2 UNIT OPERATING CONDITION

During operating testing, unit power is on and functioning.

2. VIBRATION TEST

2.1 TEST EQUIPMENT

Model	Serial Number	Calibration Date
King Design EM-600F2K-40N120	UW102090290	JUN 24, 2015

2.2 LABORATORY AMBIENCE CONDITION

Temperature : 25 °C ± 10 °C

Relative humidity : 50 % ± 25 % (RH)

2.3 REFERENCE DOCUMENT

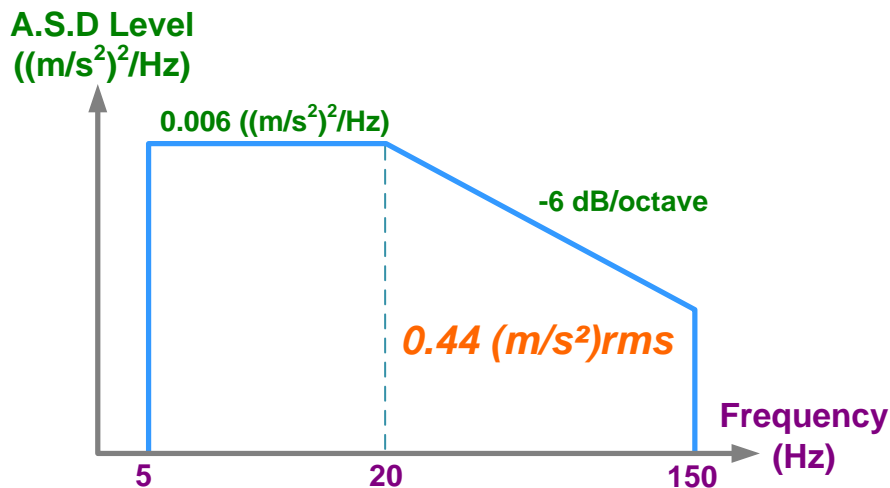
The test refers to EN50155 / EN61373 specification.

2.4 TEST CONDITION

2.4.1 Test Condition 1 (X axis)

Units are operating.

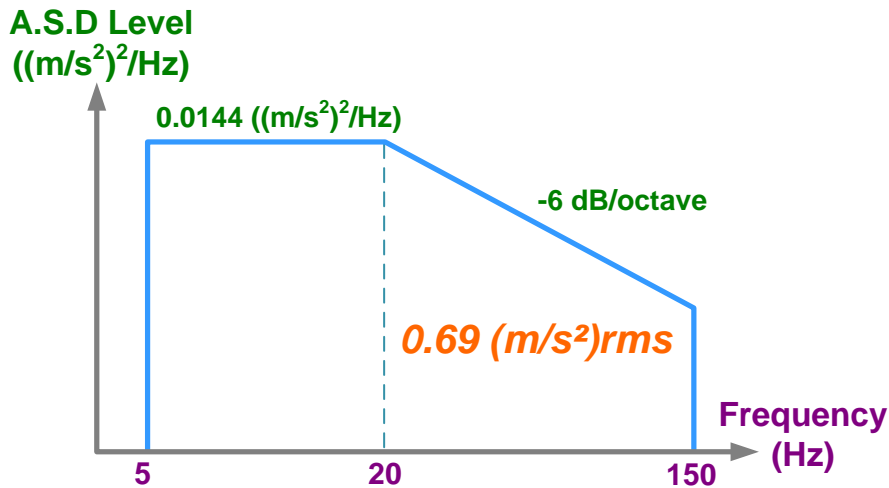
Vibration waveform : Random waveform



Duration of test / Vibration axis : 10 minutes for X axis

2.4.2 Test Condition 2 (Y axis)

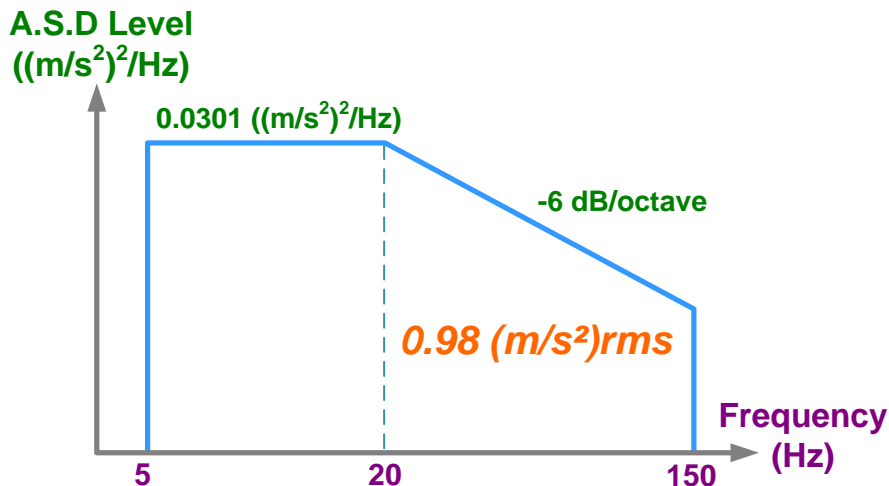
Units are operating.
 Vibration waveform : Random waveform



Duration of test / Vibration axis : 10 minutes for Y axis

2.4.3 Test Condition 3 (Z axis)

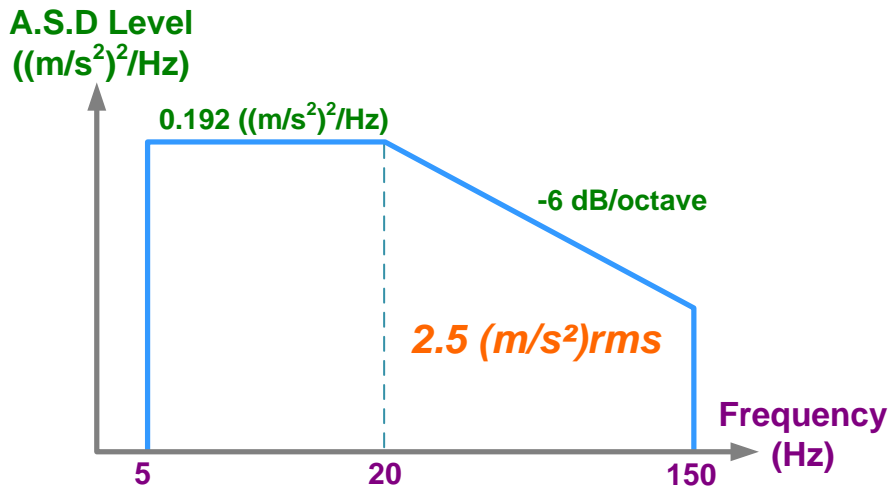
Units are operating.
 Vibration waveform : Random waveform



Duration of test / Vibration axis : 10 minutes for Z axis

2.4.4 Test Condition 4 (X axis)

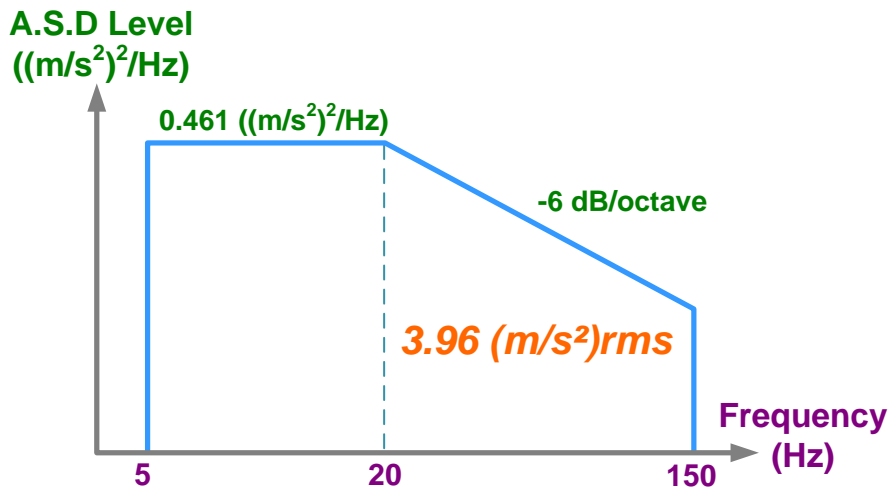
Units are operating.
 Vibration waveform : Random waveform



Duration of test / Vibration axis : 5 hours for X axis

2.4.5 Test Condition 5 (Y axis)

Units are operating.
 Vibration waveform : Random waveform

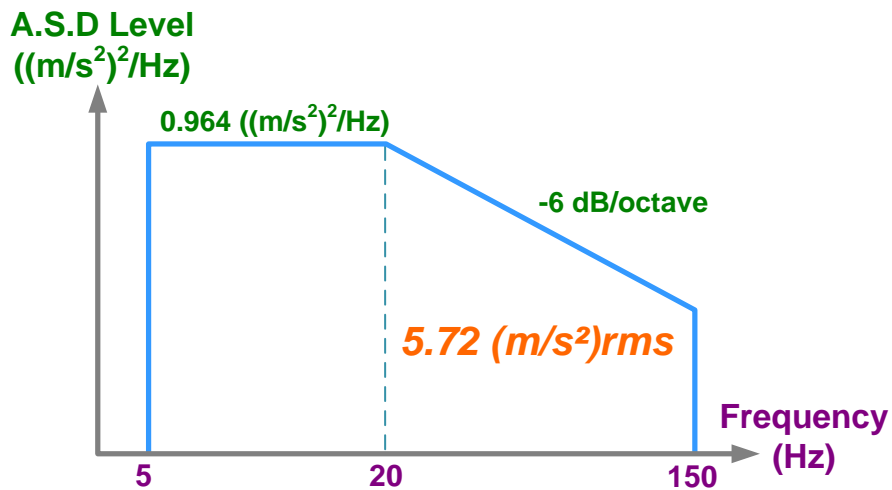


Duration of test / Vibration axis : 5 hours for Y axis

2.4.6 Test Condition 6 (Z axis)

Units are operating.

Vibration waveform : Random waveform



Duration of test / Vibration axis : 5 hours for Z axis

2.5 SUMMARY OF TEST

Before, during and after test condition 1 to condition 6, visual inspection showed no physical defect or functional degradation on units. (Voltage function was normal)

3. SHOCK TEST

3.1 TEST EQUIPMENT

Model	Serial Number	Calibration Date
LDS V-830-335 LPT COMBO	SP8239-001	JUN 24, 2015
SHINKEN G-0230N	SG-4345	JUN 24, 2015

3.2 LABORATORY AMBIENCE CONDITION

Temperature : 25 °C ± 10 °C

Relative humidity : 50 % ± 25 % (RH)

3.3 REFERENCE DOCUMENT

The test refers to EN50155 / EN61373 specification.

3.4 TEST CONDITION

3.4.1 Test Condition 1 (±X axes)

Units are non-operating.

Pulse shape : Half-sine waveform

Impact acceleration : 50 m/s²

Pulse duration : 30 ms

Number of shocks / Orientation : 6 shocks (3 shocks for ±X axis)

3.4.2 Test Condition 2 (±Y and ±Z axes)

Units are non-operating.

Pulse shape : Half-sine waveform

Impact acceleration : 30 m/s²

Pulse duration : 30 ms

Number of shocks : 12 shocks (3 shocks for each ±axis)

Orientation : ±Y and ±Z axes

3.5 SUMMARY OF TEST

After testing, visual inspection showed no physical defect on units.

No function check requested from customer.