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SZ09092021019

Add: F/r 401Building A, Ying Da Feng industrial No,393, Jihua Rd. Long Gang Dis. Shenzhen China Tel: 0755-83765367 Email: engineer@iclab-cn.com

2021/09/09 1/11

Project Inspection Report

Company : NA

Address : NA

Sample Name : XC6VLX240T-2FFG1156I

Manufacture : XILINX

Date Code : 2101

Package Type : BGA-1156

Sample Number : 8 PCS

Check Number : 8 PCS

Date of Received : 09/06/2021

Date of Tested : 10:00/09/07/2021 ~ 10:50/09/07/2021

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.

Inspected by Engineer	Reviewed by Project Manager
Wing	Lucy

Note:

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



CNAS Ilac-MF



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Items test

☑ Externa	l visual	inspection
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- ☐ Pin Correlation Test
- ☐ Programming test
- ☐ Solder ability Analysis
- \square Radiography (X-ray)
- □ ROHS test
- ☐ Key Functional Testing (KFT)
- □ Baking
- ☐ Tape and Reel
- ☐ Internal visual inspection
- ☐ Top permanency test

Methods & Equipment

1.1 Applicable Standard

• MIL-STD-883L-2019 2009.14

1.2 Optical Microscope

Equipment Spec:

Top view: FINIAL Hi-scope System SEZ-260: X7 ~ X45

1.3 Digital Caliper

• Equipment Spec:

MASTERPROOF: Standard Digital Caliper 0-150mm

1.4 Testing Environment

Ambient Temperature: 25±5°C

• Relative Humidity: 45%-65% RH

1.5 Testing Base

• [XILINX XC6VLX240T-2FFG1156I]

https://datasheet.datasheetarchive.com/originals/dk/DKDS-24/460837.pdf







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Analysis Summary

External Visual Inspection:

Applicable Standard: MIL-STD-883L 2019 2009.14

External Visual Inspection on 8 PCS samples marked with D/C 2101. BGA and side show minor indentation on all inspected. Evidence of different marking type and unaligned marking was found on all inspected. Devices package and dimension matched to manufacturer's specification.

All devices failed the external visual inspection.

Specification dimension:

D: 35.00 BSC MM E: 35.00 BSC MM

A: 2.70 - 3.50 MM

Measurement dimension:

D: 35.11 MM E: 35.04 MM A: 3.04 MM







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External Visual Inspection Result:		
External Visual Criteria	Yes/No	Result
Mix-up	No	Pass
Top Scratches	No	Pass
Bottom Scratches	No	Pass
Residues	No	Pass
Indentation	Yes	Exist
Contamination	No	Pass
Cracks	No	Pass
Copper defect	No	Pass
Oxidization	No	Pass
Coplanarity	Yes	Pass
Different Marking Type	Yes	Failed
Unaligned Marking	Yes	Failed







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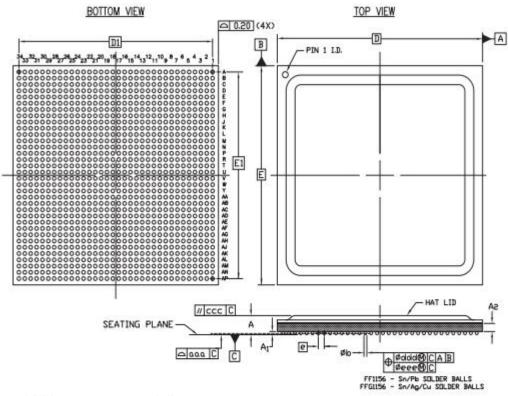
Email: engineer@iclab-cn.com

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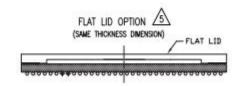
1. Device Description:

Virtex®-6 FPGAs are available in -3, -2, -1, and -1L speed grades, with -3 having the highest performance. Virtex-6 FPGA DC and AC characteristics are specified in commercial, extended, industrial, and military temperature ranges. Unless noted, the Virtex-6Q FPGA DC and AC characteristics are equivalent to the commercial specifications.

2. Package Dimensions:



S H	MILL	IMETE	ERS	NOTE
B D L	MIN.	NDM.	MAX.	Ė
Α	2.70	ne	3.50	Г
A ₁	0.40	0.50	0.60	
Az	0.90	ne	1.50	
D/E	35.	00 BAS	IC	
	33.	00 REF		
e	1.0	00 BAS	IC	
Øb	0.50	0.60	0.70	4
aaa	ne	ne	0.20	
ccc	- Me	ne	0.35	
oldid	m	The	0.30	
eee	ne	ne	0.10	
м		34		2



NOTES:

- 1. ALL DIMENSIONS AND TOLERANCES CONFORM TO ANSI Y14.5M-1994
- 2. SYMBOL 'M' IS THE BALL MATRIX SIZE
- 3. CONFORMS TO JEDEC MS-034-AAR-1
- 4. ACTUAL SOLDER BALL COUNT = 1156
- FLAT LID WILL BE USED ONLY FOR THE FOLLOWING DEVICES, XC6VSX475T, XC6VSX315T, and XC6VLX365T
- 6. THIS PACKAGE IS ONLY USED FOR VIRTEX®-6 FPGAS REFER TO PK384 FOR THE MECHANICAL DRAWING OF THE FF1156 PACKAGE USED BY VIRTEX-5 FPGAS

pk401_01_121009



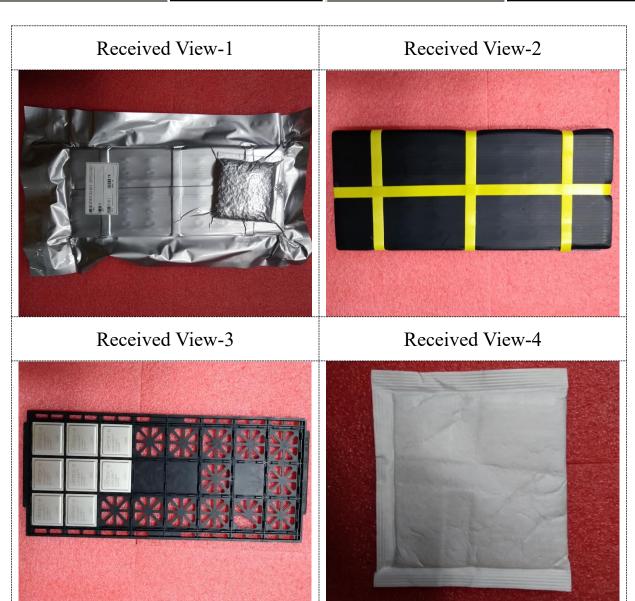
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3. Receiving Inspection:

Gross Weight	490 g	Parts Total	8 PCS
Number Of Boxes	N/A	Full Label	Non Present
Package type	Tray	Moisture protection	Acceptable
MSL	N/A	ESD protection	Acceptable





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4. External Visual Inspection:

Applicable Standard: MIL-STD-883L 2019 2009.14

External Visual Inspection on 8 PCS samples marked with D/C 2101. BGA and side show minor indentation on all inspected. Evidence of different marking type and unaligned marking was found on all inspected. Devices package and dimension matched to manufacturer's specification.

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Specification dimension:

D: 35.00 BSC MM E: 35.00 BSC MM A: 2.70 - 3.50 MM

Measurement dimension:

D: 35.11 MM E: 35.04 MM A: 3.04 MM



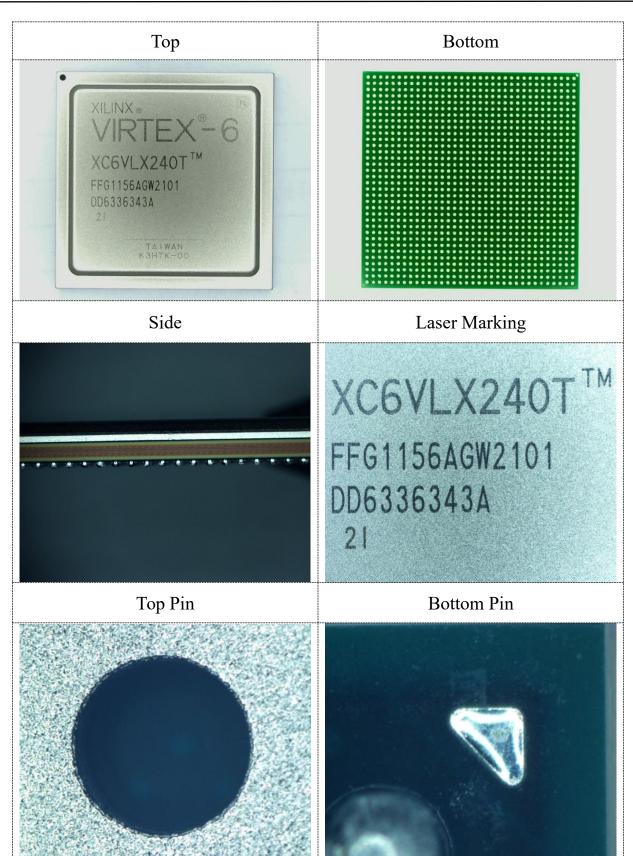




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BGA-2 BGA-1 Different Marking Type Side BGA **Unaligned Marking** Side Minor Indentation-1

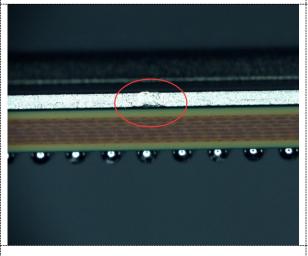


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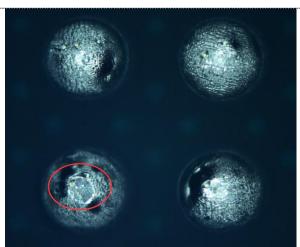
Email: engineer@iclab-cn.com



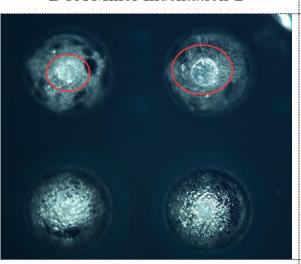
Side Minor Indentation-2



BGA Minor Indentation-1



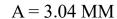
BGA Minor Indentation-2



D = 35.11 MM



E = 35.04 MM







End









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