



Chuangxin Online Test Center Laboratory

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



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Project Inspection Report

Company : NA
Address : NA
Sample Name : ADXL357BEZ-RL7
Manufacture : ADI
Date Code : 2108,2106,2113
Package Type : CLCC14
Sample Number : 2500 PCS
Check Number : 122 PCS
Date of Received : 08/30/2021
Date of Tested : 10:30/08/31/2021 ~ 17:10/09/02/2021

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
Cherry

Reviewed by Project Manager
Felix

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.



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Items test

- External visual inspection
- Pin Correlation Test
- Programming test
- Solder ability Analysis
- Radiography (X-ray)
- ROHS test
- Key Functional Testing (KFT)
- Baking
- Tape and Reel
- Internal visual inspection
- Top permanency test
- Heated Chemical Test

Methods & Equipment

1.1 Applicable Standard

- AS6081

1.2 Optical Microscope

- Equipment Spec:
Top view: FINIAL Hi-scope System SEZ-260: X7 ~ X45
FJ-3A: X50-X500

1.3 Digital Caliper

- Equipment Spec:
MASTERPROOF : Standard Digital Caliper 0-150mm

1.4 Radiography (X-ray)

- Equipment Spec:
Hardware: XiDAT Dage XD6500
Software: 11.56-DD6058
Magnification in excess of 2800x
Resolution below 2um
Energy: 80KV/40uA



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1.5 ROHS test

- Equipment Spec:
ICP-OES

1.6 Testing Environment

- Ambient Temperature: $25\pm 5^{\circ}\text{C}$
- Relative Humidity: 45%-65% RH

1.7 Testing Base

- [ADI ADXL357BEZ-RL7]

<https://www.analog.com/media/en/technical-documentation/data-sheets/ADXL356-357.pdf>

Analysis Summary

External Visual Inspection:

Applicable Standard: AS6081

External Visual Inspection on 122 PCS(B1 to B41,C-1 to C-41,D1 to D40) samples. No secondary coating, sanding marks, crack or chips were observed on all inspected. Leads were in acceptable condition. Devices package and dimension matched to manufacturer's specification. All devices passed the external visual inspection.

Specification dimension:

L: 5.85-6.25 MM

W: 5.85-6.25 MM

H: 2.20 REF MM

Measurement dimension:

L: 6.00 MM

W: 6.02 MM

H: 2.27 MM



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X-ray Analysis:

Applicable Standard: AS6081

X-ray Inspection 49 PCS(B1 to B16,C-1 to C-16,D1toD17)samples . No structure or bonding wire abnormal was found.

ROHS Testing:

Applicable Standard: AS6081

ROHS testing on 3 PCS samples. Cd (PPM), Hg(ppm) and Pb (ppm) tests comply with ROHS standards.

Heated Chemical Test:

Applicable Standard: AS6081

Heated Chemical Test were verified 3PCS (B1, C-1, D1) samples, all samples passed Heated Chemical Test.

Internal Visual Inspection:

Applicable Standard: AS6081

Internal Visual Inspection was verified on 3PCS (B1, C-1, D1) samples. 2 dies (Die1&Die2) were found.

Die1: Manufacturer ADI marking were found with 2016 copyright year. Die marking XM357A were found on the die surface.

Die2: Manufacturer ADI marking were found with 2015 copyright year. Die marking XL355 were found on the die surface.

Summary: All samples show the same structures and marking and samples confirmed to be a ADI device.



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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	No	Pass
Contamination	No	Pass
Cracks	No	Pass
Copper defect	No	Pass
Oxidization	No	Pass
Coplanarity	Yes	Pass
Sanding Marks	No	Pass
Secondary Coating	No	Pass
Top permanency Test	N/A	N/A

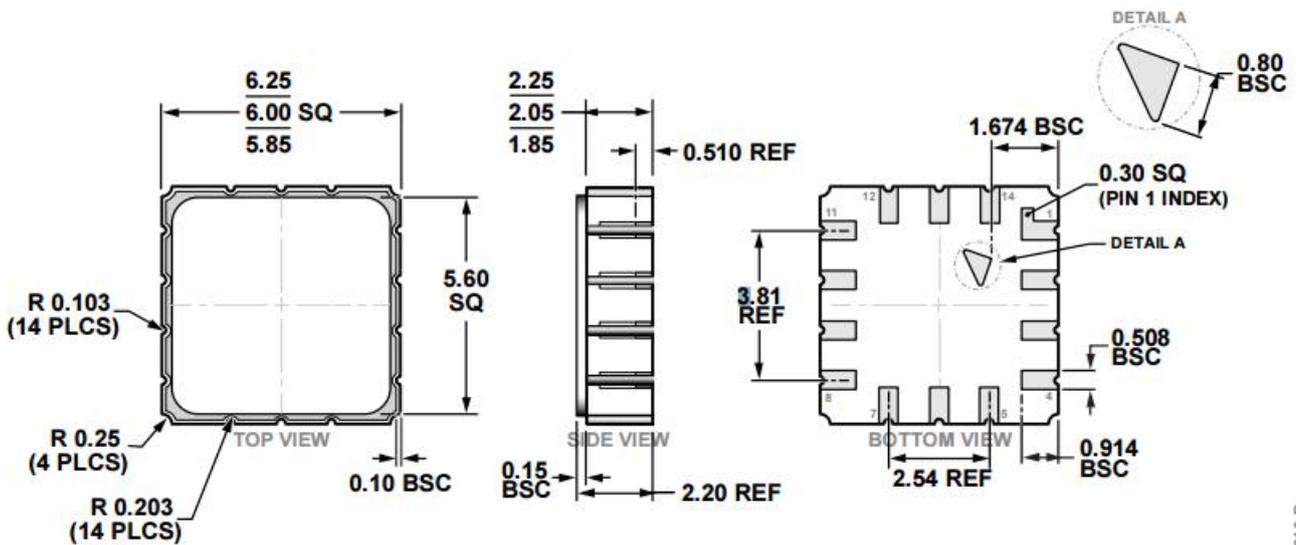


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1. Device Description:

The analog output ADXL356 and the digital output ADXL357 are low noise density, low 0 g offset drift, low power, 3-axis accelerometers with selectable measurement ranges. The ADXL356B supports the ± 10 g and ± 20 g ranges, the ADXL356C supports the ± 10 g and ± 40 g ranges, and the ADXL357 supports the ± 10 g, ± 20 g, and ± 40 g ranges.

2. Package Dimensions:





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3. Receiving Inspection:

Gross Weight	1036 g	Parts Total	2500 PCS
Number Of Boxes	4	Full Label	Exist
Package type	Reel	Moisture protection	Non Present
MSL	N/A	ESD protection	Non Present

Note: All devices contain 2500 PCS samples.

Test samples contain 41 PCS of D/C 2108(B1 to B41) , 41 PCS of D/C 2106(C-1 to C-41) and 40 PCS of D/C 2113(D1 to D40) .

Received View-1



Received View-2



Label-1



Label-2





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Label-3



Label-4



Label-5



Received View-3





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4. External Visual Inspection:

Applicable Standard: AS6081

External Visual Inspection on 122 PCS(B1 to B41,C-1 to C-41,D1 to D40) samples. No secondary coating, sanding marks, crack or chips were observed on all inspected. Leads were in acceptable condition. Devices package and dimension matched to manufacturer's specification. All devices passed the external visual inspection.

Specification dimension:

L: 5.85-6.25 MM

W: 5.85-6.25 MM

H: 2.20 REF MM

Measurement dimension:

L: 6.00 MM

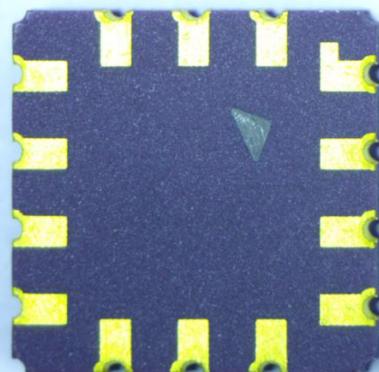
W: 6.02 MM

H: 2.27 MM

B1-Top



B1-Bottom





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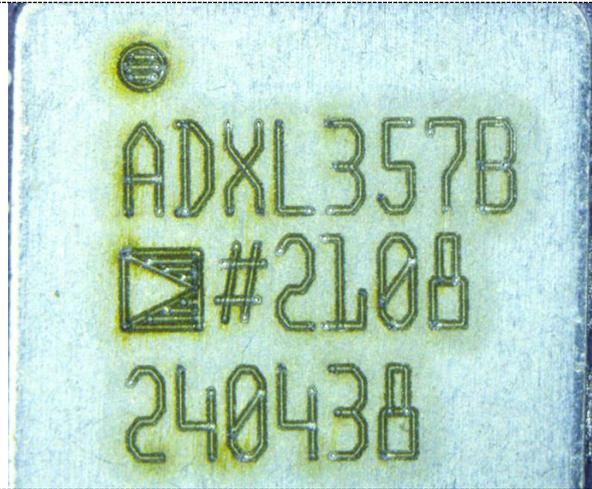


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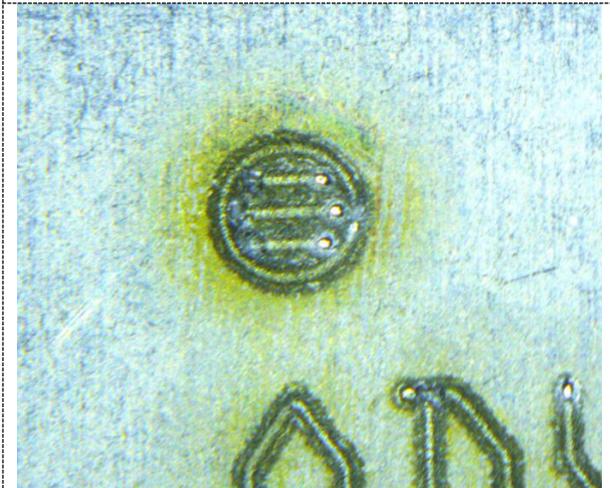
B1-Side



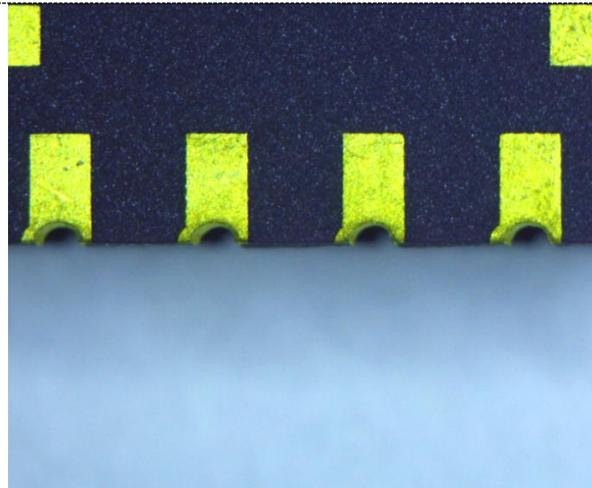
B1-Laser Marking



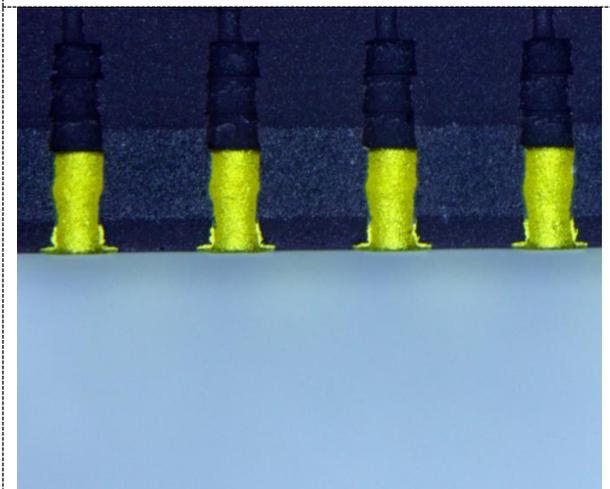
B1-Pin 1



B1-Bottom Leads



B1-Leads End



B1-L =6.00 MM



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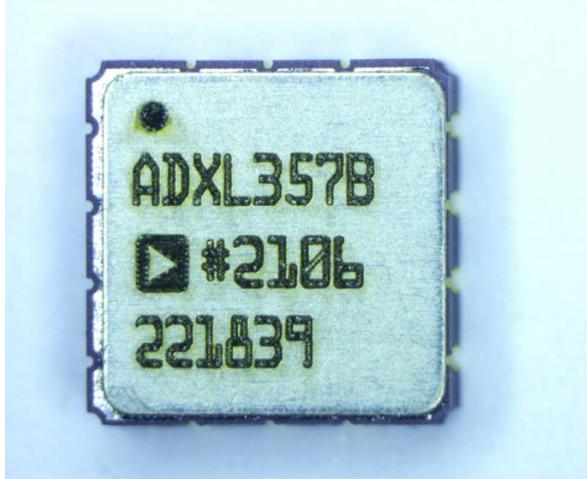
B1-W = 6.02 MM



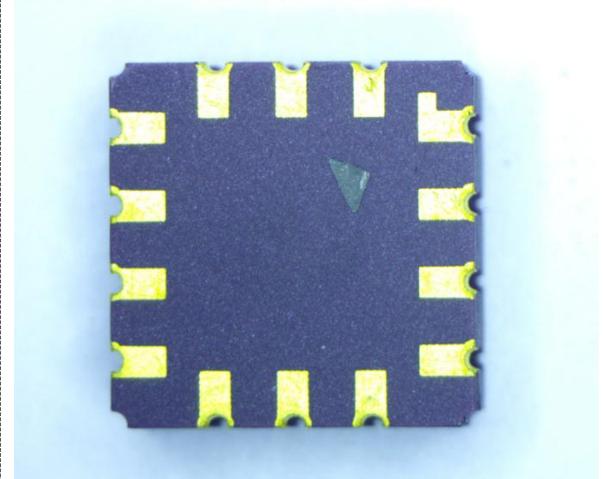
B1-A = 2.27 MM



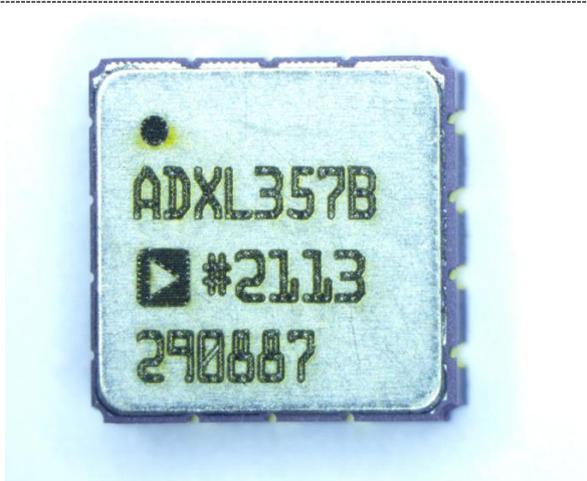
C-1-Top



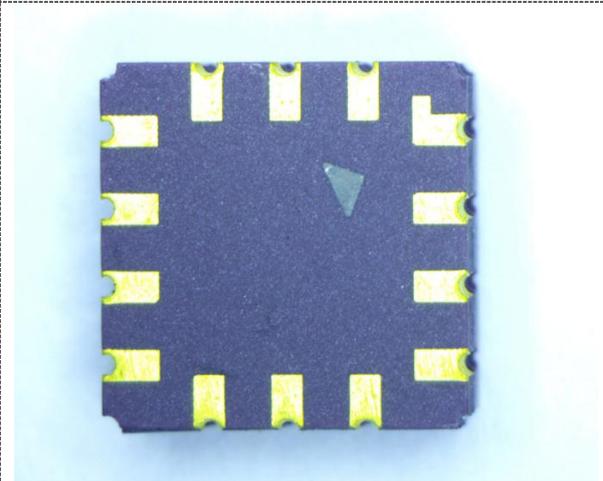
C-1-Bottom



D1-Top



D1-Bottom





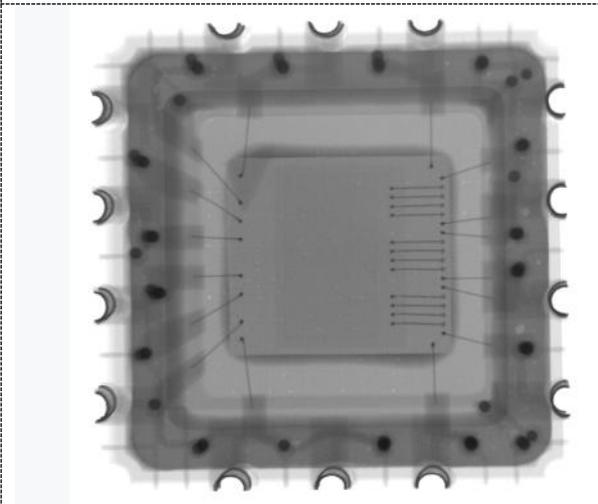
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5.X-ray Analysis:

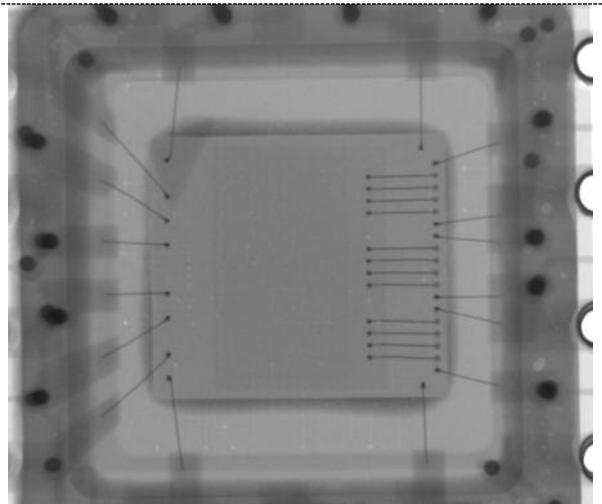
Applicable Standard: AS6081

X-ray Inspection 49 PCS(B1 to B16,C-1 to C-16,D1toD17)samples . No structure or bonding wire abnormal was found.

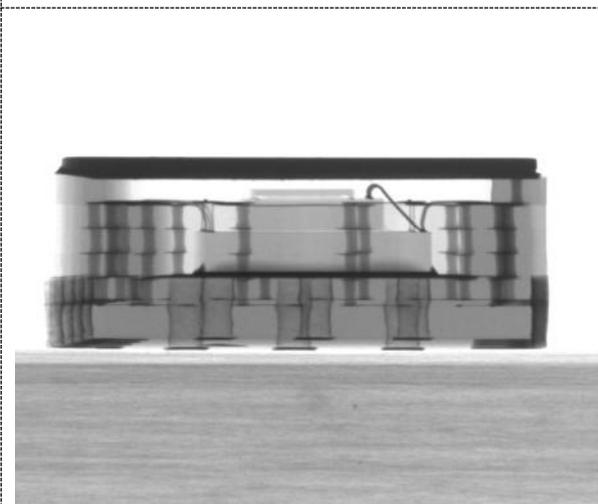
B1-Top View-All



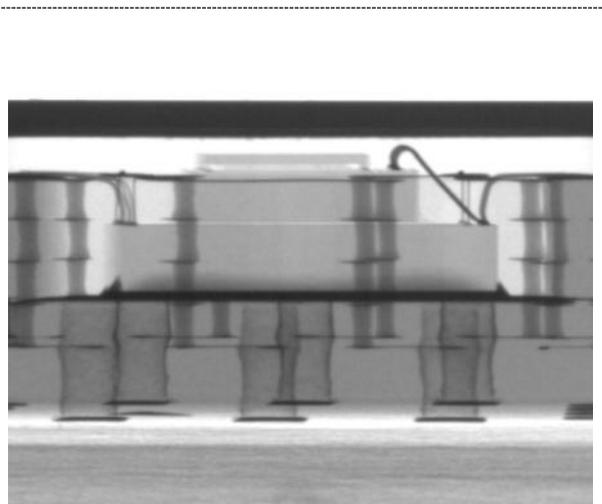
B1-Top View-Zoom



B1-Side View-All



B1-Side View-Zoom





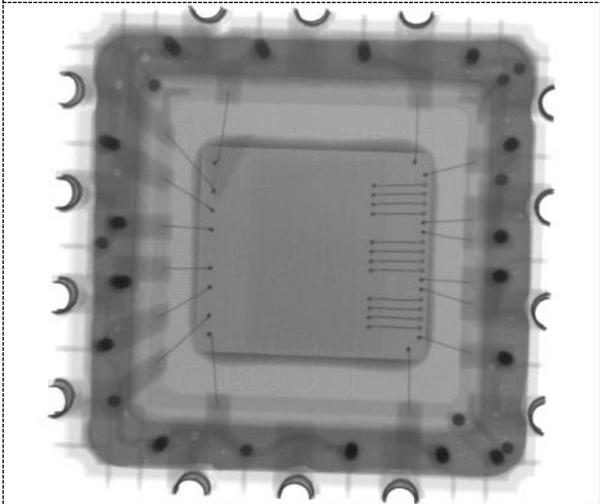
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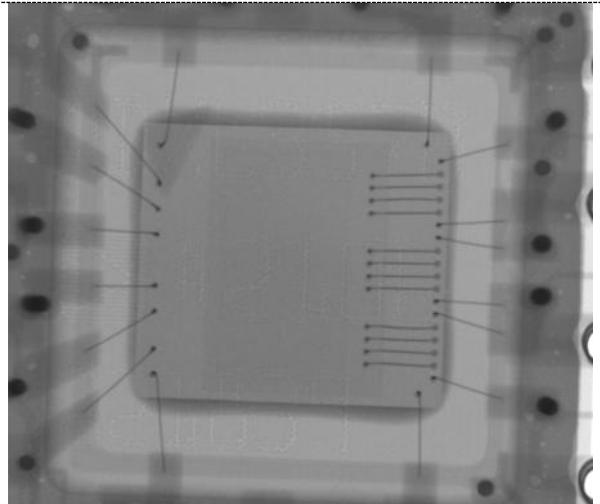


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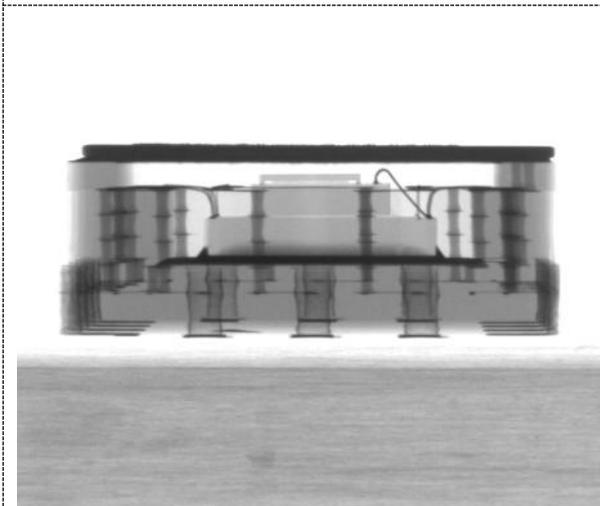
C-1-Top View-All



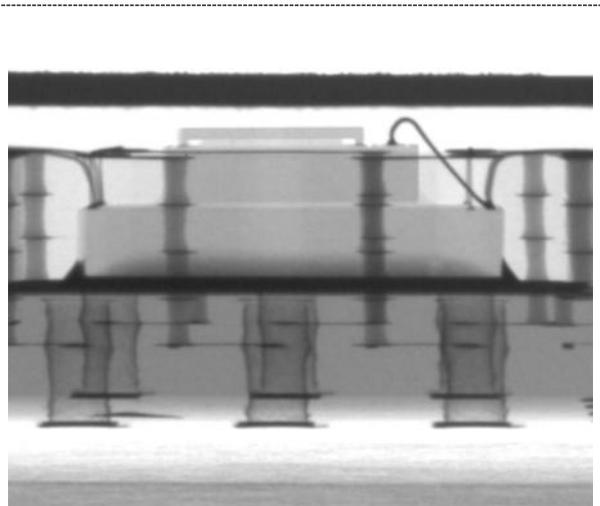
C-1-Top View-Zoom



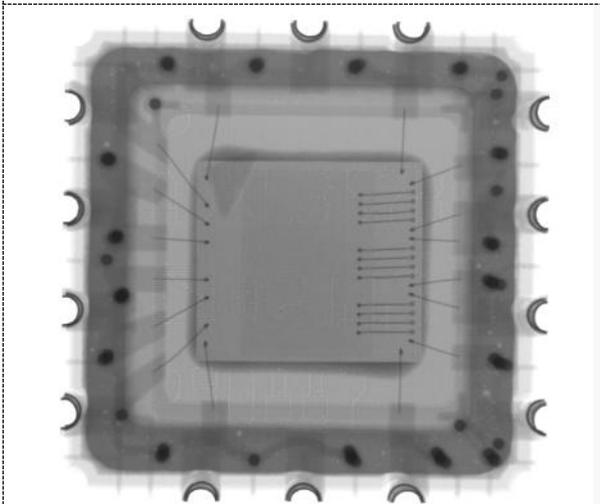
C-1-Side View-All



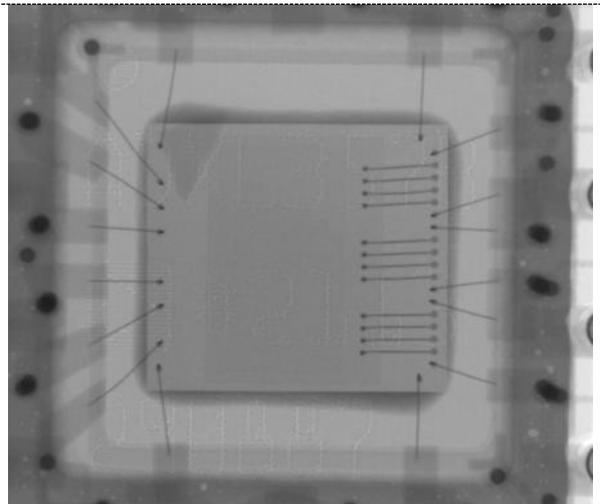
C-1-Side View-Zoom



D1-Top View-All



D1-Top View-Zoom





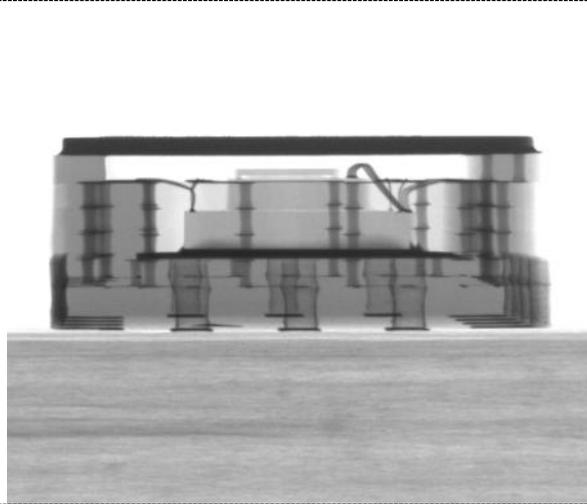
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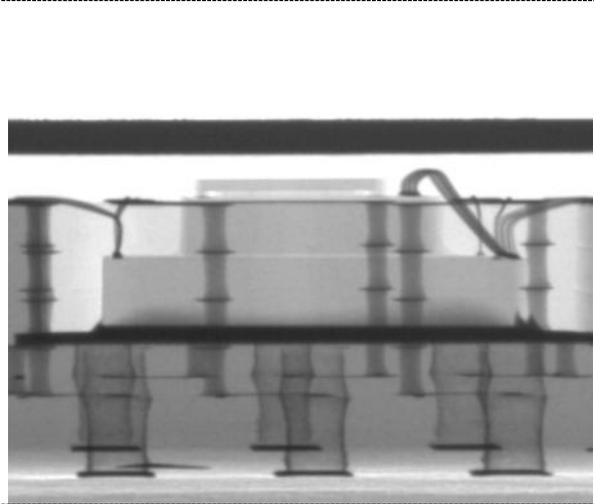


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D1-Side View-All



D1-Side View-Zoom





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6. ROHS Testing:

Applicable Standard: AS6081

ROHS testing on 3 PCS samples. Cd (PPM), Hg(ppm) and Pb (ppm) tests comply with ROHS standards.

B1						
Element	Intensity	Content (ppm)	Equipment	Error (ppm)	Limits (ppm)	Result
Cd(ppm)	0	ND	ICP-OES	0.00	100	Pass
Hg(ppm)	0	ND	ICP-OES	0.00	1000	Pass
Pb(ppm)	0	ND	ICP-OES	0.00	1000	Pass
C-1						
Element	Intensity	Content (ppm)	Equipment	Error (ppm)	Limits (ppm)	Result
Cd(ppm)	0	ND	ICP-OES	0.00	100	Pass
Hg(ppm)	0	ND	ICP-OES	0.00	1000	Pass
Pb(ppm)	0.00015	768.47	ICP-OES	153.69	1000	Pass
D1						
Element	Intensity	Content (ppm)	Equipment	Error (ppm)	Limits (ppm)	Result
Cd(ppm)	0	ND	ICP-OES	0.00	100	Pass



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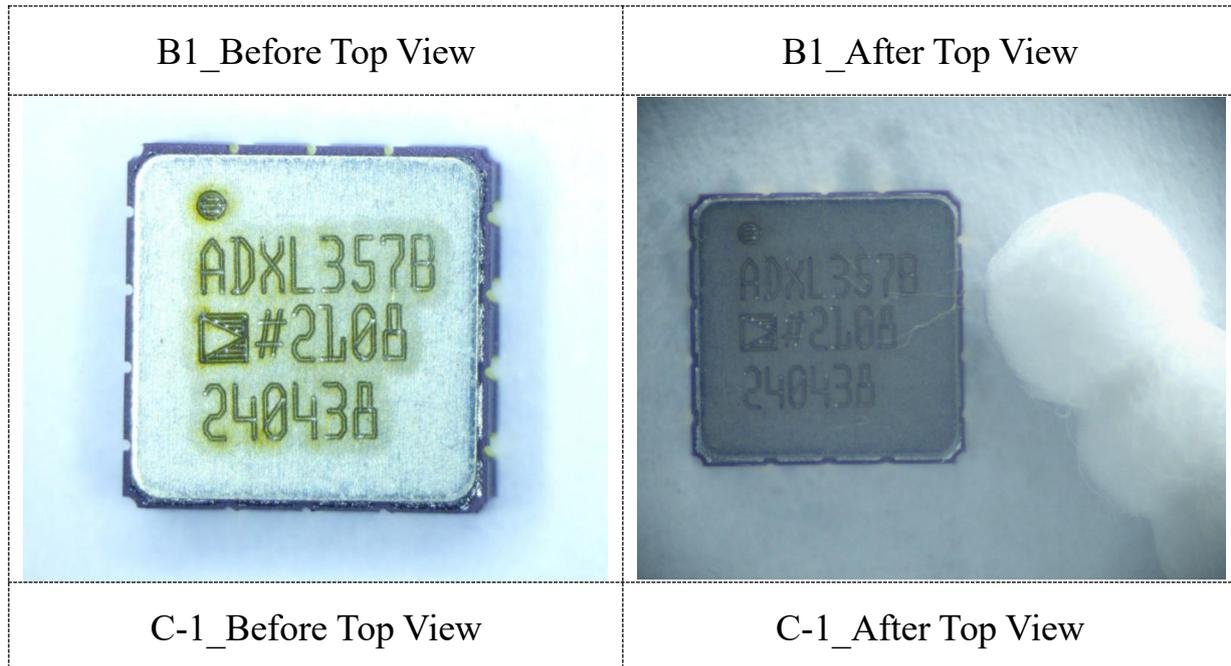
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Hg(ppm)	0	ND	ICP-OES	0.00	1000	Pass
Pb(ppm)	0	ND	ICP-OES	0.00	1000	Pass

7.Heated Chemical Test:

Applicable Standard: AS6081

Heated Chemical Test were verified 3PCS (B1, C-1, D1) samples, all samples passed Heated Chemical Test.



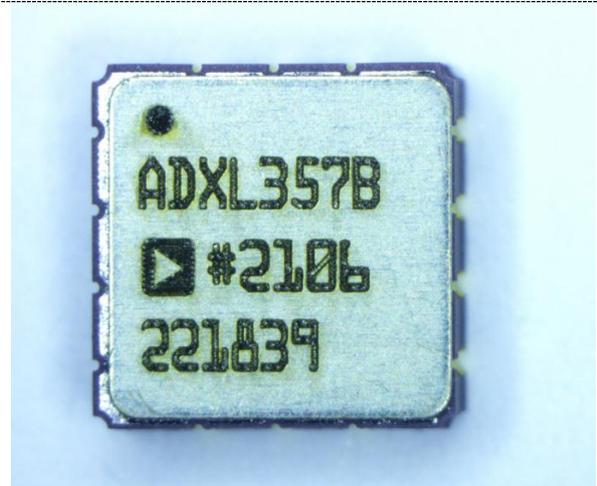


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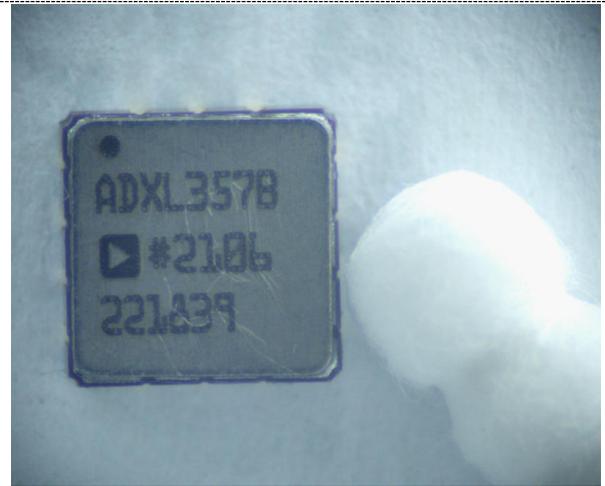
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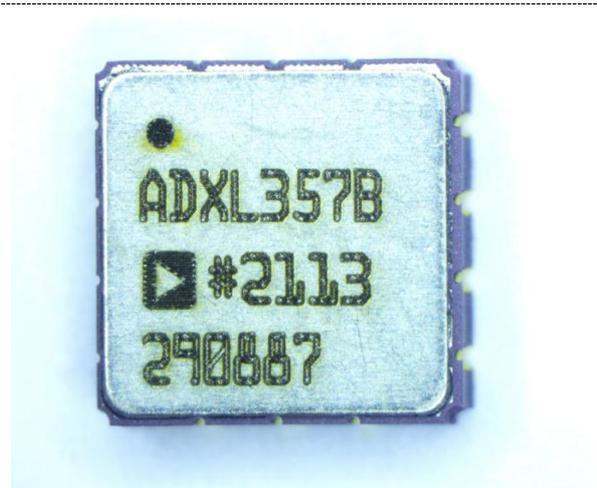
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D1_Before Top View



D1_After Top View



D1_Before Top View



D1_After Top View



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8.Internal Visual Inspection:

Applicable Standard: AS6081

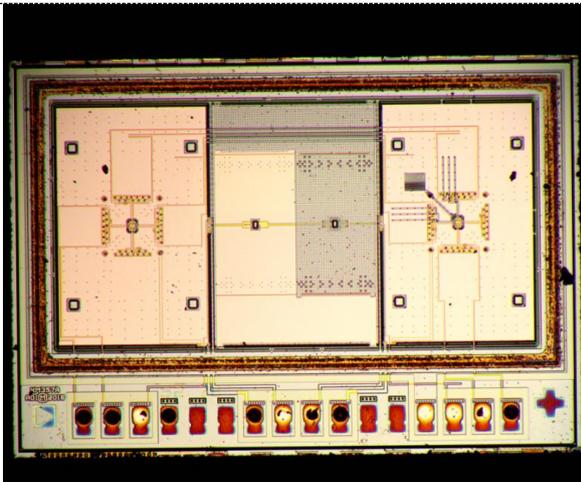
Internal Visual Inspection was verified on 3PCS (B1, C-1, D1) samples. 2 dies (Die1&Die2) were found.

Die1: Manufacturer ADI marking were found with 2016 copyright year. Die marking XM357A were found on the die surface.

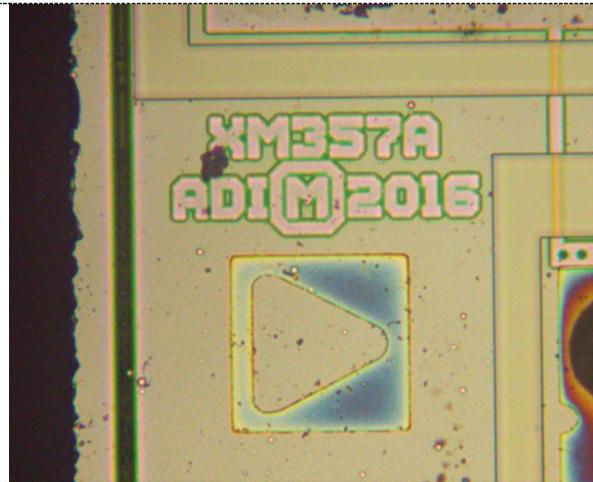
Die2: Manufacturer ADI marking were found with 2015 copyright year. Die marking XL355 were found on the die surface.

Summary: All samples show the same structures and marking and samples confirmed to be a ADI device.

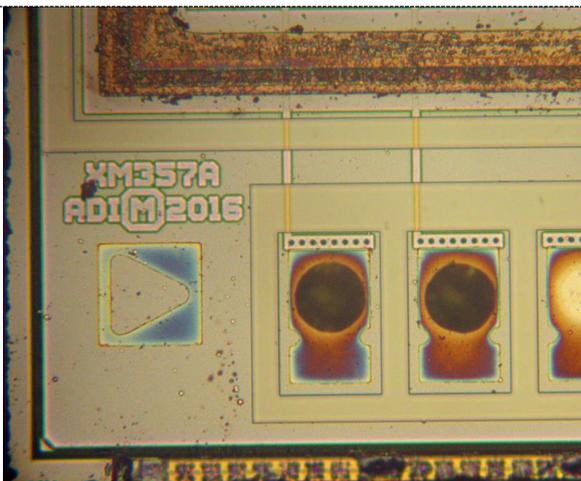
B1_Die1-Topography



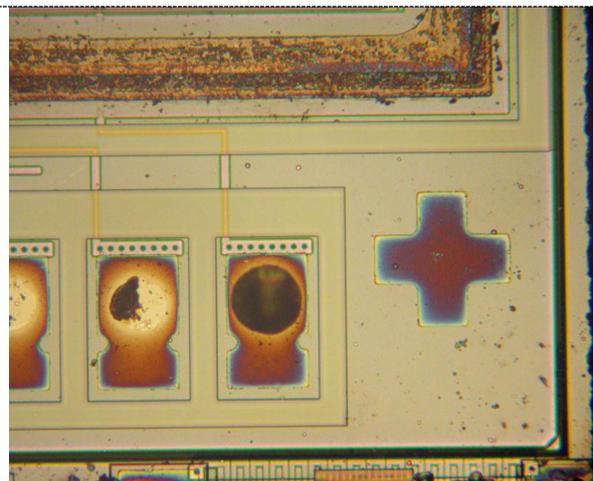
B1_Die1-Logo



B1_Die1-Corner-1



B1_Die1-Corner-2





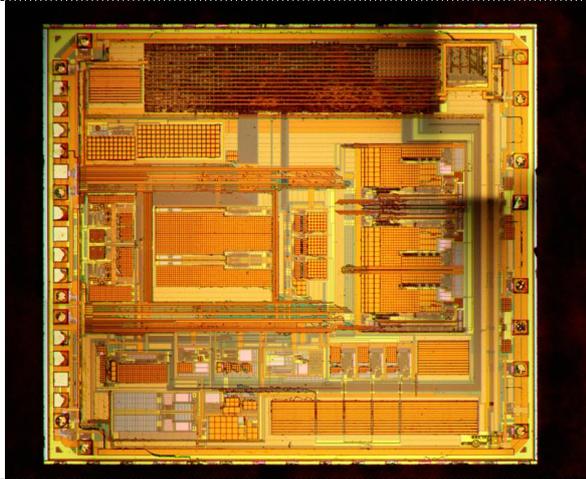
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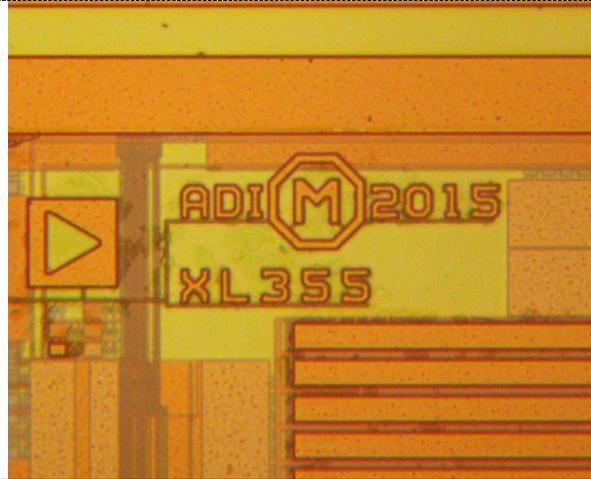


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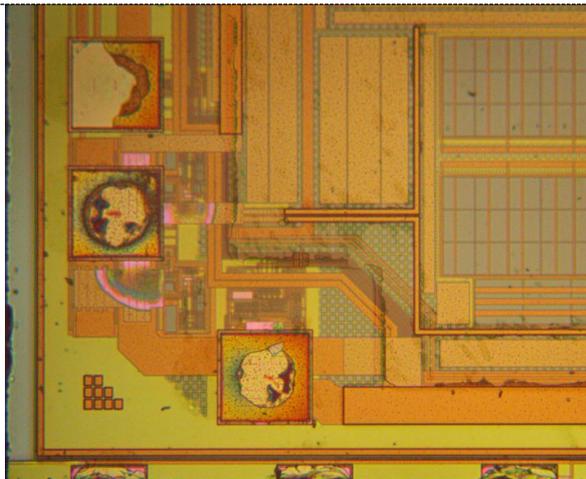
B1_Die2-Topography



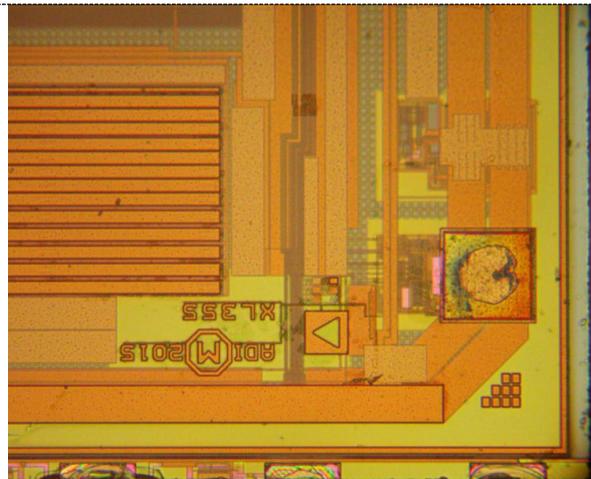
B1_Die2-Logo



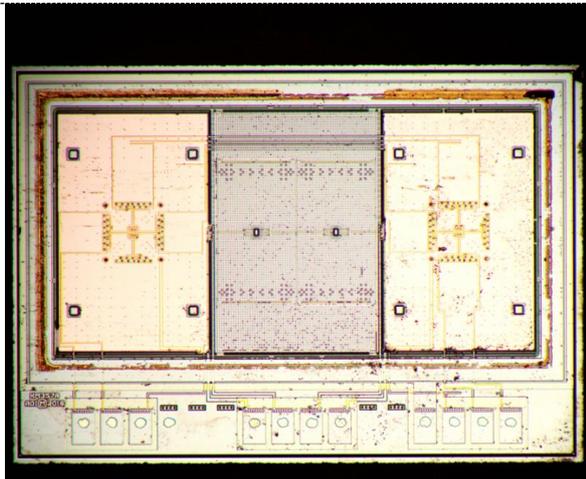
B1_Die2-Corner-1



B1_Die2-Corner-2



C-1_Die1-Topography



C-1_Die1-Logo





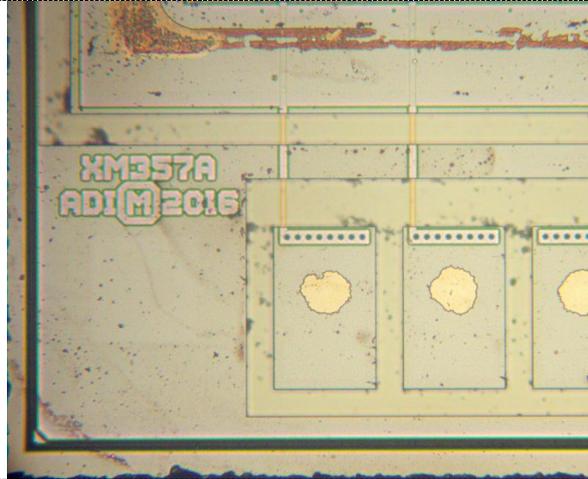
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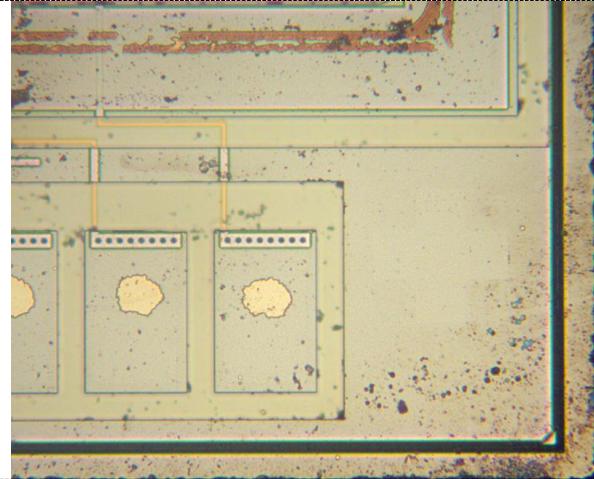


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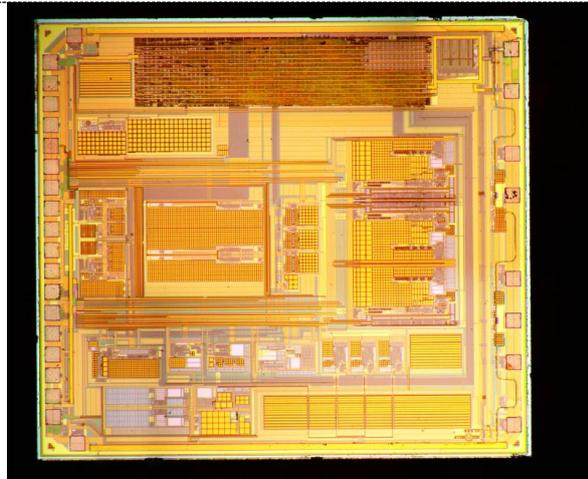
C-1_Die1-Corner-1



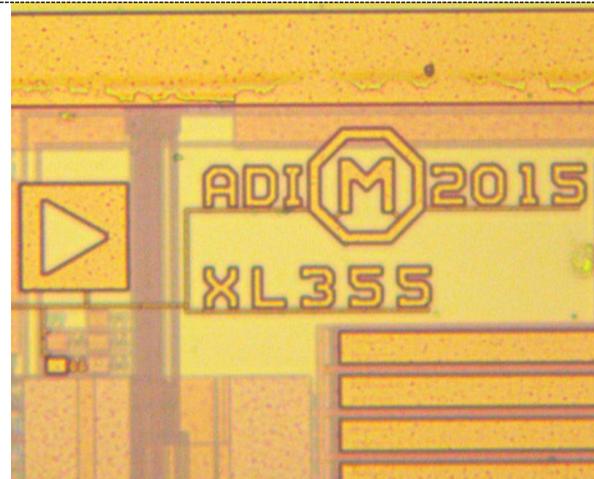
C-1_Die1-Corner-2



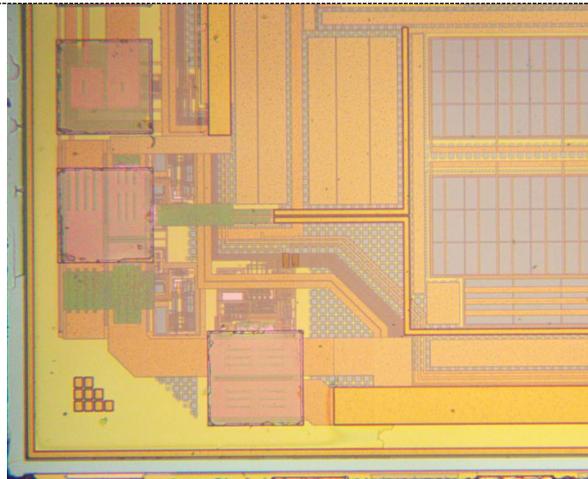
C-1_Die2-Topography



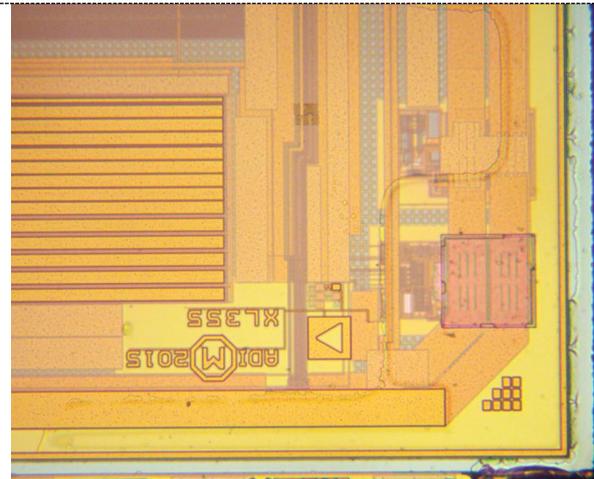
C-1_Die2-Logo



C-1_Die2-Corner-1



C-1_Die2-Corner-2





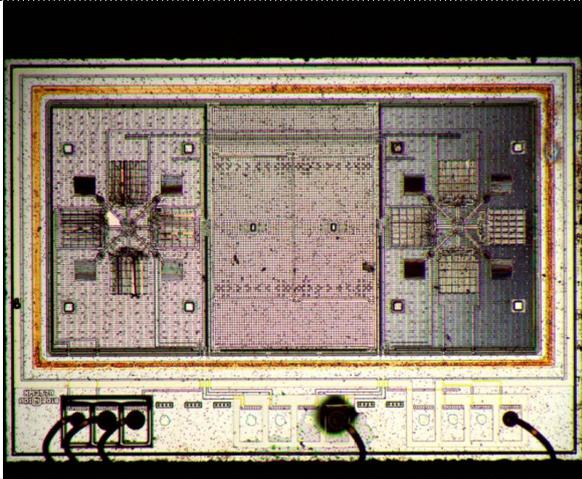
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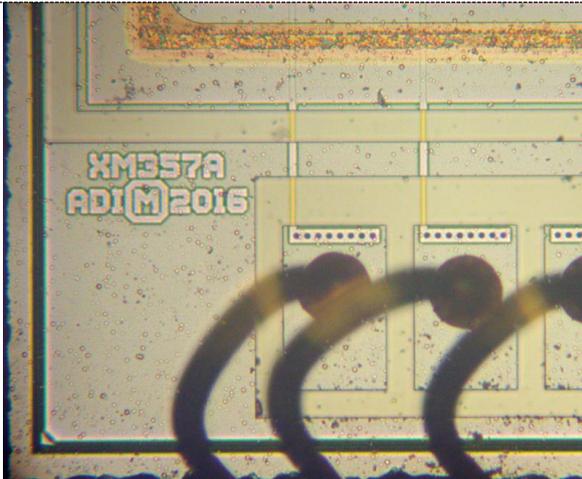
D1_Die1-Topography



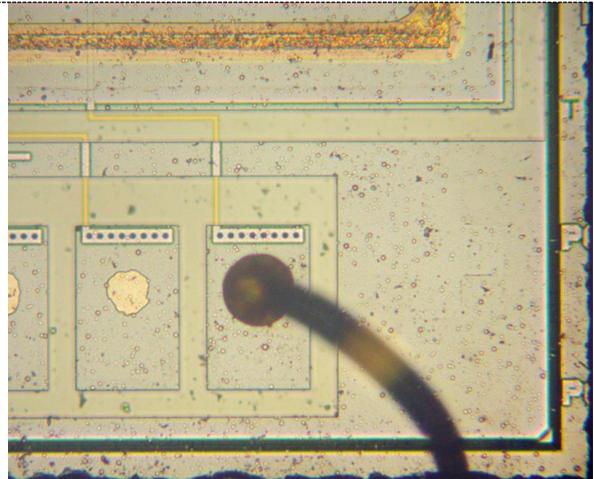
D1_Die1-Logo



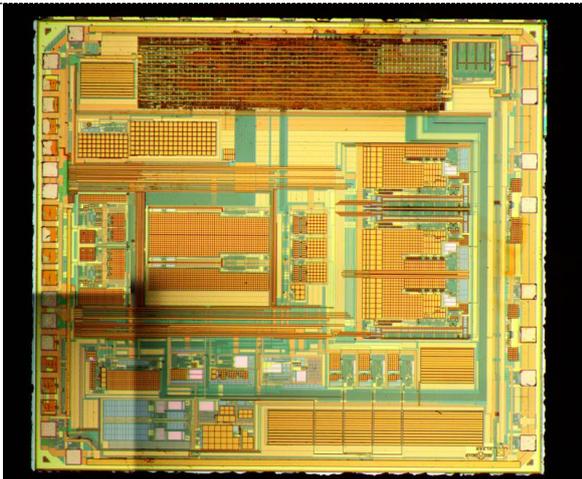
D1_Die1-Corner-1



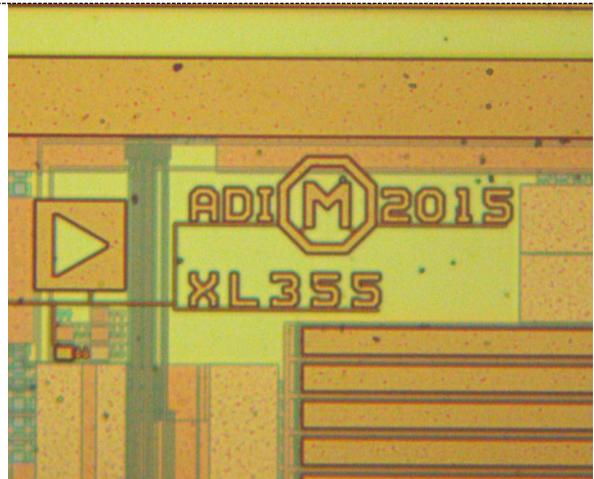
D1_Die1-Corner-2



D1_Die2-Topography



D1_Die2-Logo





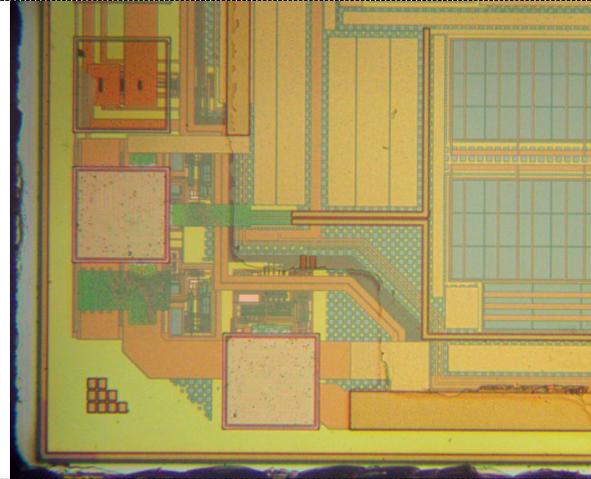
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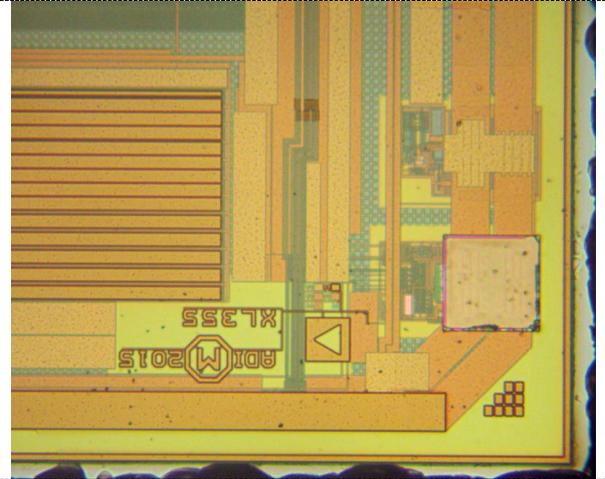


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D1_Die2-Corner-1



D1_Die2-Corner-2



End

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