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Project Inspection Report

Company : NA
Address : NA
Sample Name : AD7276AUJZ-REEL7
Manufacture : ADI
Date Code : 2101, 2032
Sample Number : 2 PCS
Check Number : 2 PCS
Date of Received : 2021/07/26
Date of Tested : 2021/07/27 15:30 - 2021/07/28 15:20

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.

No: INCEL-QR-058



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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

Methods & Equipment

1.1 Applicable Standard

- MIL-STD-883K-2017 2009.13
- MIL-STD-883K-2017 2003.13

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 display calipers 0—150mm

1.4 Test equipment and auxiliary materials

I Device model: CM100S
I Flux model: PD-150

1.5 Testing environment

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

1.6 Test Basis

- ADI AD7276AUJZ-REEL7:
https://www.analog.com/media/en/technical-documentation/data-sheets/AD7276_7277_7278.pdf



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Analysis Summary

External Visual Inspection Result:

Applicable Standard: MIL-STD-883K-2017 2009.13

External Visual Inspection on 2 PCS samples marked with D/C2101 and D/C2032. The part markings are laser-etched onto the top side of each device: Logo C6S. 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. Device passed top permanency tested.

Specification dimension:

L: 2.90 BSC MM

W: 2.80 BSC MM

H: 1.00 MAX MM

Measurement dimension:

L: 2.98 MM

W: 2.77 MM

H: 0.93 MM

Solderability Analysis:

Applicable Standard: MIL-STD-883K-2017 2003.13

Solderability tested were performed on 2 PCS samples with 6 leads using the dip and look methods. 2 PCS passed solderability test. The dipped portion of the terminations is more than 95% covered by a continuous new solder coating.



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External Visual Inspection Result:

External Visual Criteria	Yes/No	Result
Mix-up	No	Pass
Top Scratches	No	Pass
Substrate Scratches and residues	No	Pass
Contamination	No	Pass
Cracks	No	Pass
Other defect	No	Pass
Oxidization	No	Pass
Indentation	No	Pass
Secondary Coating	No	Pass
Tool Marks	No	Pass
Residues	No	Pass
Coplanarity	Yes	Pass
Top permanency test	Yes	Pass

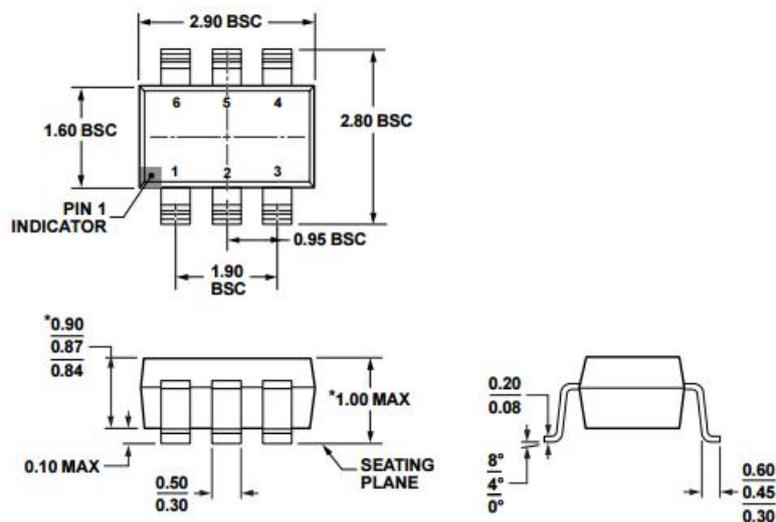


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1. Device Description:

The AD7276/AD7277/AD7278 are 12-/10-/8-bit, high speed, low power, successive approximation analog-to-digital converters (ADCs), respectively. The parts operate from a single 2.35 V to 3.6 V power supply and feature throughput rates of up to 3 MSPS. The parts contain a low noise, wide bandwidth track-and-hold amplifier that can handle input frequencies in excess of 55 MHz.

2. Package dimensions:





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3.Receiving Inspection:

Gross Weight:	23.18 g	Parts Total	2 PCS
Number Of Boxes	N/A	intact label	Non Present
Package type	Reel&Bulk	Moisture protection	Acceptable
MSL	N/A	ESD protection	Acceptable
Country of Mfg	N/A	Package Type	TSOT6

Note: All devices contain 1 PCS of D/C 2101 and 1 PCS of D/C 2032. Device was received in acceptable condition.

Received View-1



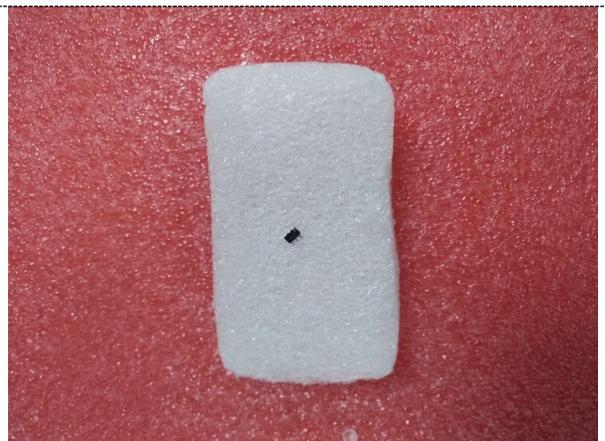
Received View-2



Received View-3



Received View-4





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Received View-5



Received View-6





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4. External Visual Inspection:

Applicable Standard: MIL-STD-883K-2017 2009.13

External Visual Inspection on 2 PCS samples marked with D/C2101 and D/C2032. The part markings are laser-etched onto the top side of each device: Logo C6S. 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. Device passed top permanency tested.

Specification dimension:

L: 2.90 BSC MM

W: 2.80 BSC MM

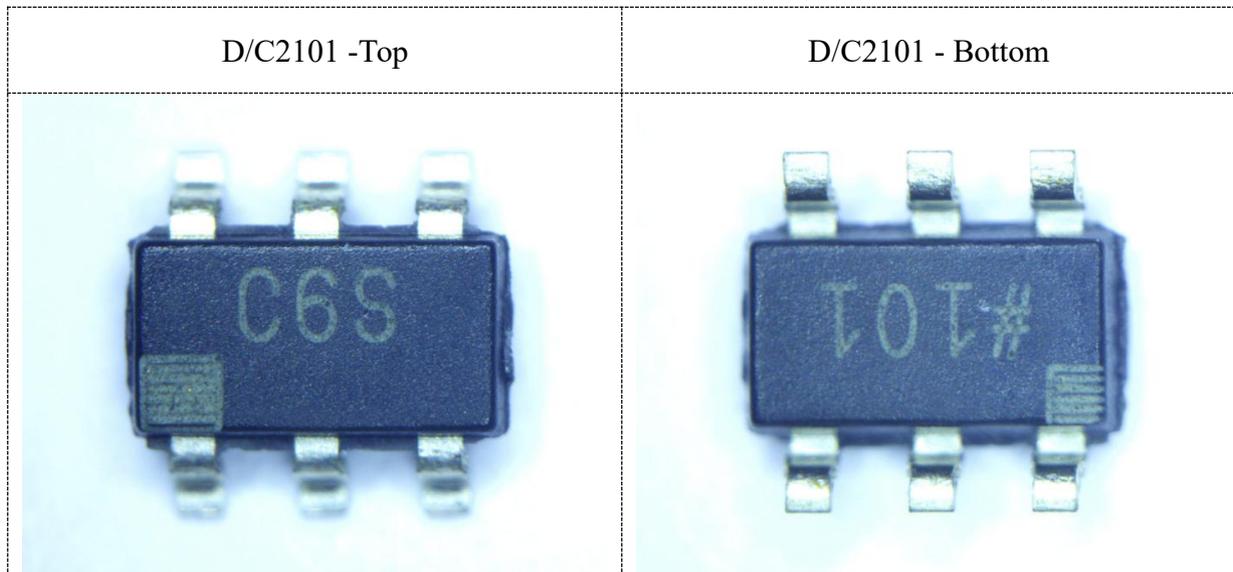
H: 1.00 MAX MM

Measurement dimension:

L: 2.98 MM

W: 2.77 MM

H: 0.93 MM





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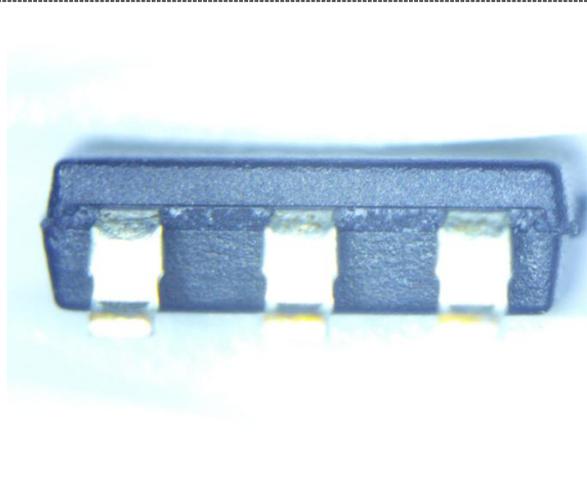
D/C2101 -Top Marking



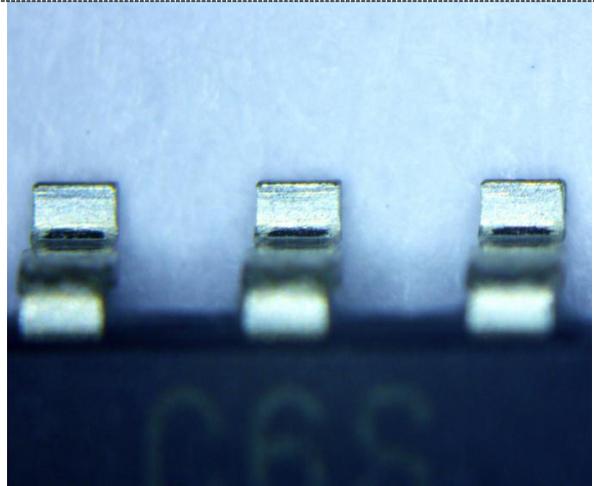
D/C2101 -Bottom Marking



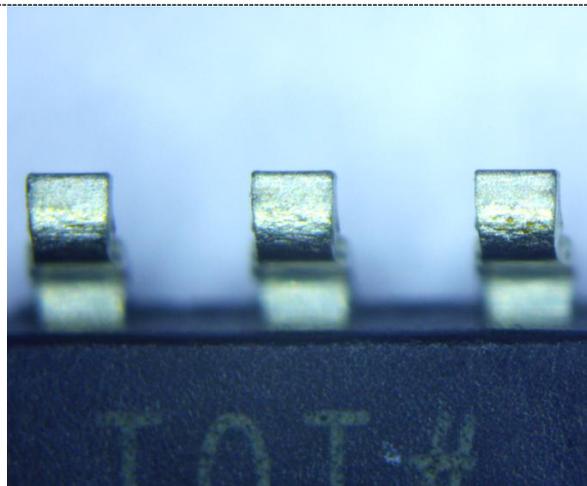
D/C2101 -Side



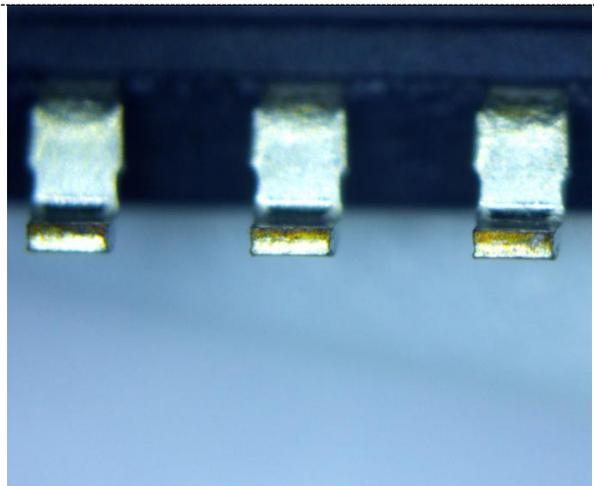
D/C2101 -Top Leads



D/C2101 -Bottom Leads



D/C2101 - Leads End



D/C2101 - L=2.98 MM



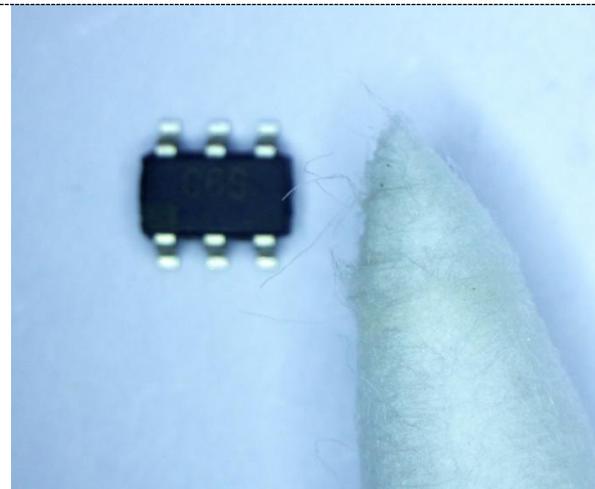
D/C2101 -W=2.77 MM



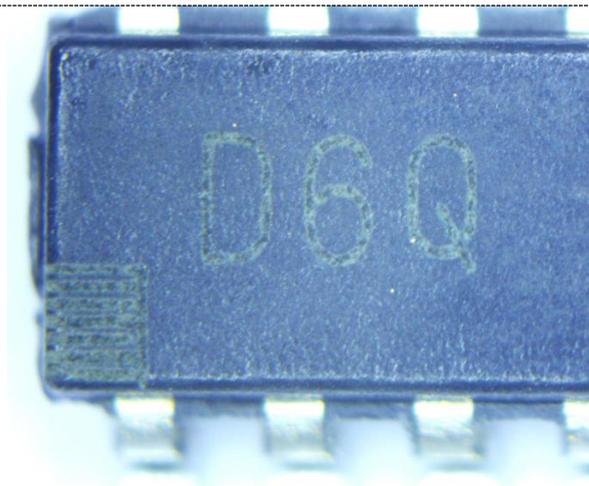
D/C2101 - H=0.93 MM



D/C2101 - Top permanency test



D/C2101 -Top Side
 (Before top permanency test)



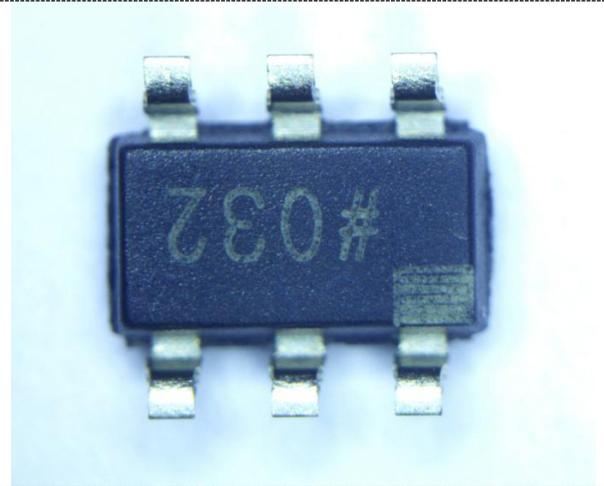
D/C2101 -Top Side
 (After top permanency test)



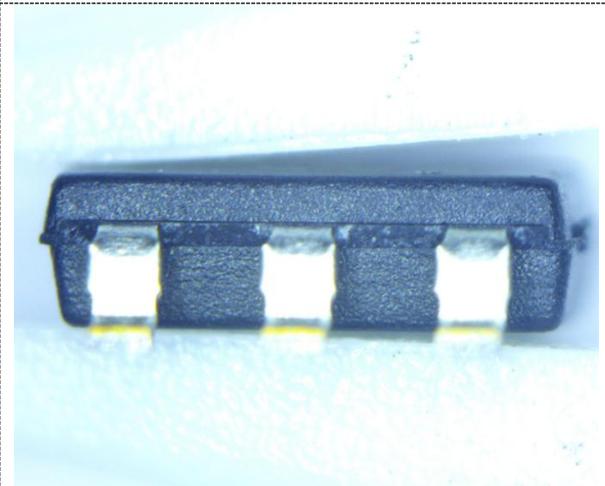
D/C2032 -Top



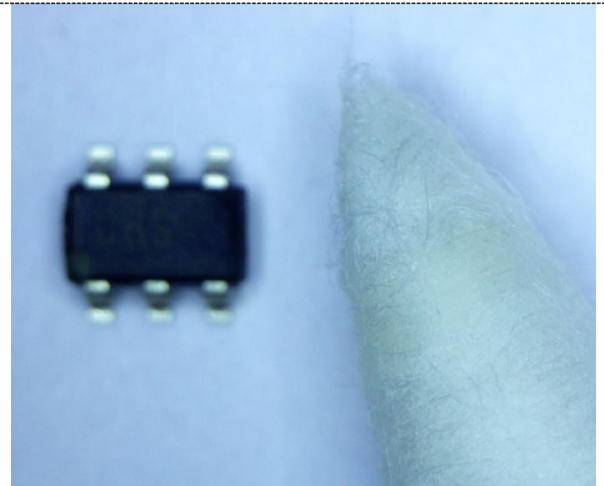
D/C2032 - Bottom



D/C2032 -Side



D/C2032 - Top permanency test



D/C2032 -Top Side
 (Before top permanency test)



D/C2032 -Top Side
 (After top permanency test)





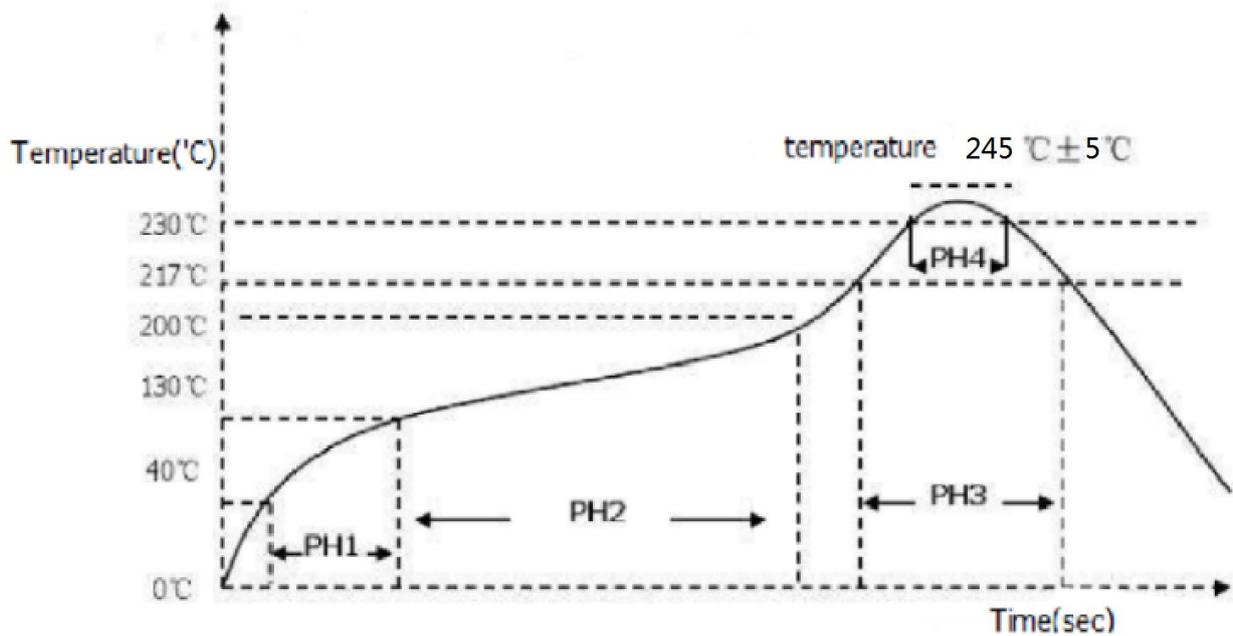
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5.Solderability Analysis:

Applicable Standard: MIL-STD-883K-2017 2003.13

Solderability tested were performed on 2 PCS samples with 6 leads using the dip and look methods. 2 PCS passed solderability test. The dipped portion of the terminations is more than 95% covered by a continuous new solder coating.

Testing condition:



Furnace temperature curve analysis

Room Temperature	26.6°C	Relative Humidity	58%
Immersion speed and lifting speed	0.984 in	Flux Immersion Angle	45°
Solder Pot Temperature	245°C	Solder material	Sn-Ag3.0Cu0.5
Solder Method	Dip and Look Test	Solder Immersion Time	5S

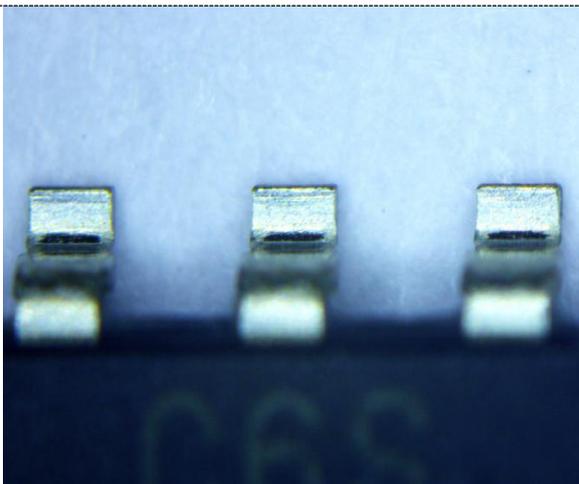
Tin Furnace Temperature



D/C2101 - Before Top View



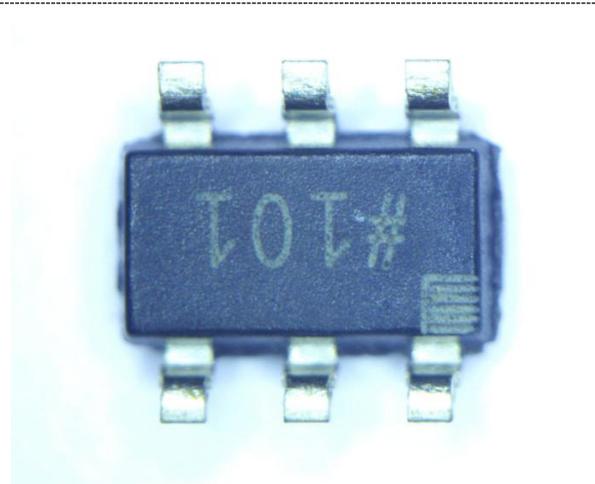
D/C2101 - Before Top Leads



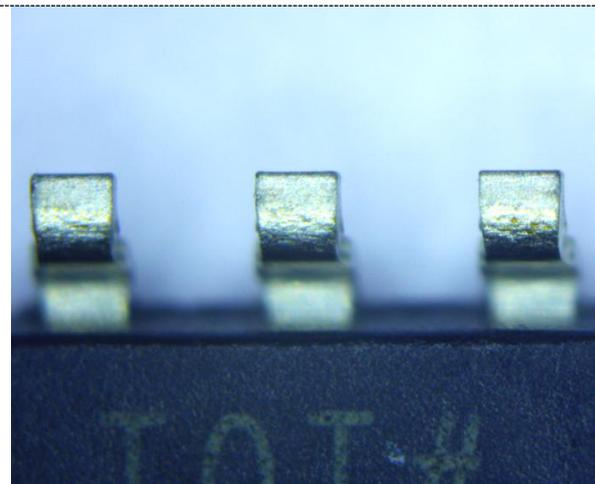
Humidity



D/C2101 - Before Bottom View



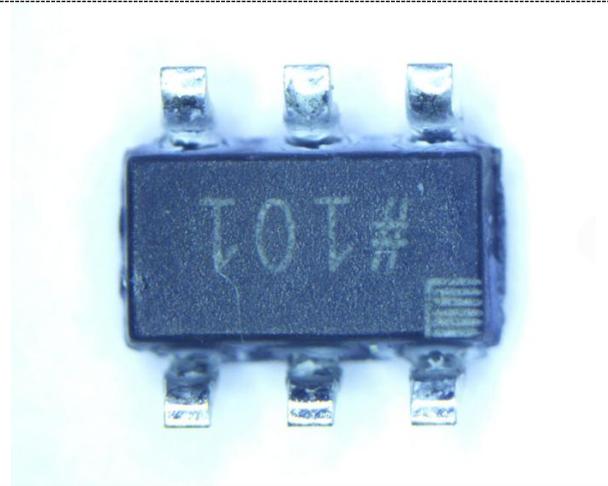
D/C2101 - Before Bottom Leads



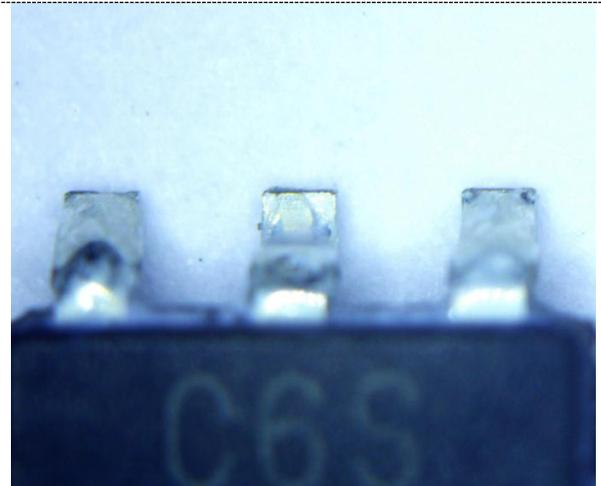
D/C2101 - After Top View



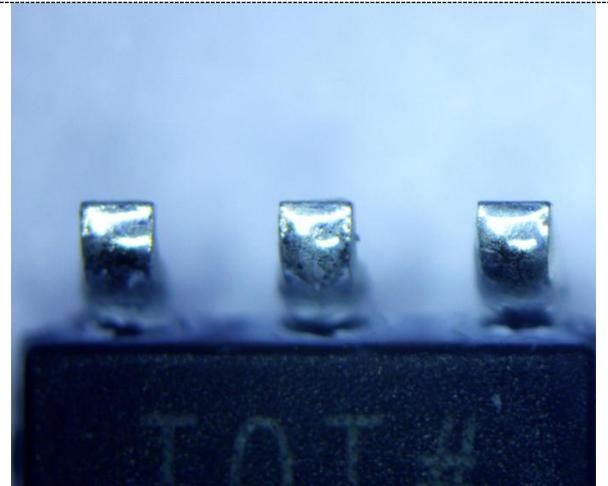
D/C2101 - After Bottom View



D/C2101 - After Top Leads



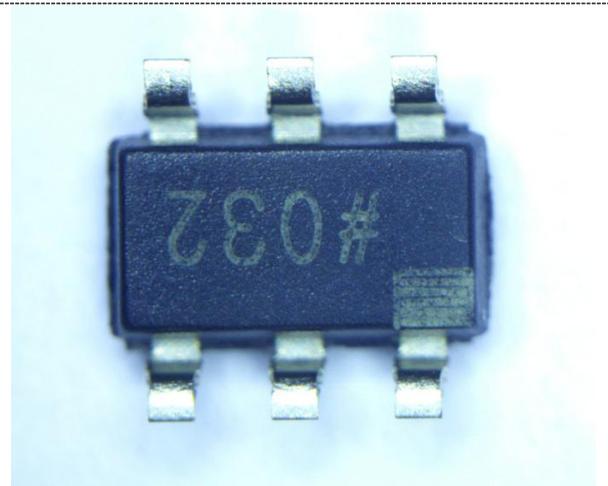
D/C2101 - After Bottom Leads



D/C2032 - Before Top View



D/C2032 - Before Bottom View





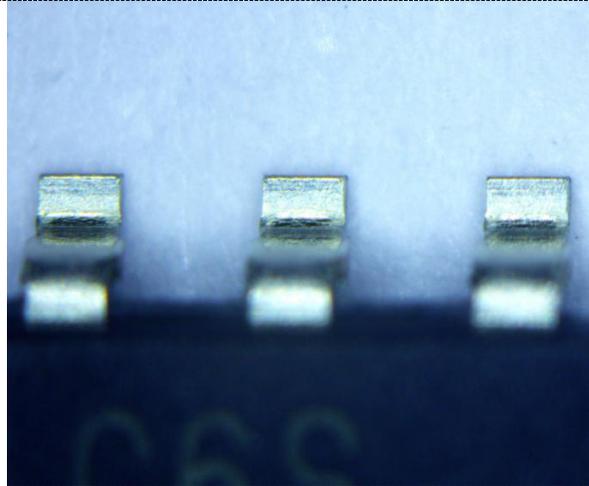
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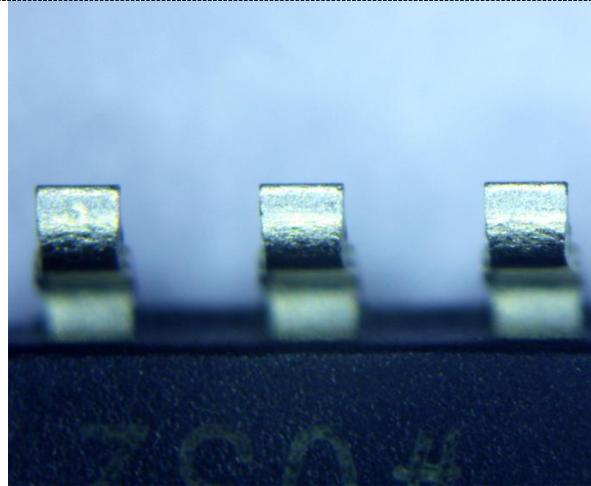


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D/C2032 - Before Top Leads



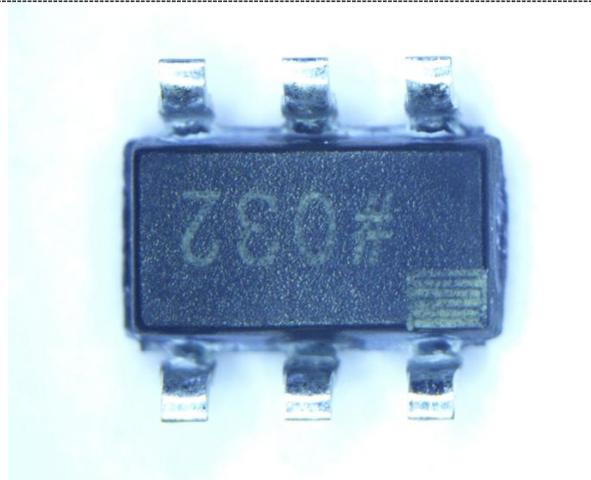
D/C2032 - Before Bottom Leads



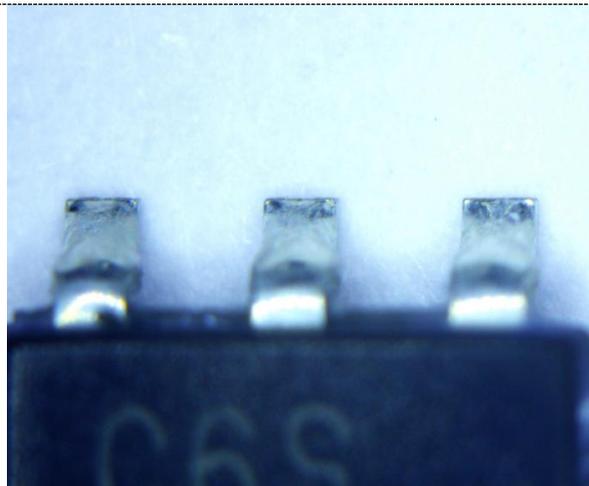
D/C2032 - After Top View



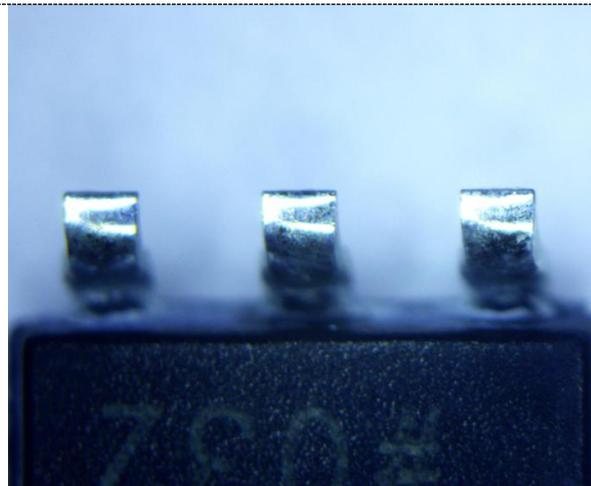
D/C2032 - After Bottom View



D/C2032 - After Top Leads



D/C2032 - After Bottom Leads





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