



## 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



Report No:	SZ08092021003
Date:	2021/08/09
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# Project Inspection Report

Company : NA  
Address : N/A  
Sample Name : AD9649BCPZ-40  
Manufacture : ADI  
Date Code : 2107  
Package Type : LFCSP-32  
Sample Number : 81 PCS  
Check Number : 1 PCS  
Date of Received : 08/06/2021  
Date of Tested : 10:00/08/07/2021 ~ 10:30/08/07/2021

### 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  
Wing

Reviewed by Project Manager  
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.



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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-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

- [ADI AD9649BCPZ-40]

<https://www.analog.com/media/en/technical-documentation/data-sheets/AD9649.pdf>



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## Analysis Summary

### External Visual Inspection:

Applicable Standard: MIL-STD-883L 2019 2009.14

External Visual Inspection on 1 PCS sample marked with D/C 2107. 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: 4.90 - 5.10 MM

W: 4.90 - 5.10 MM

H: 0.70 - 0.80 MM

Measurement dimension:

L: 5.02 MM

W: 5.01 MM

H: 0.81 MM



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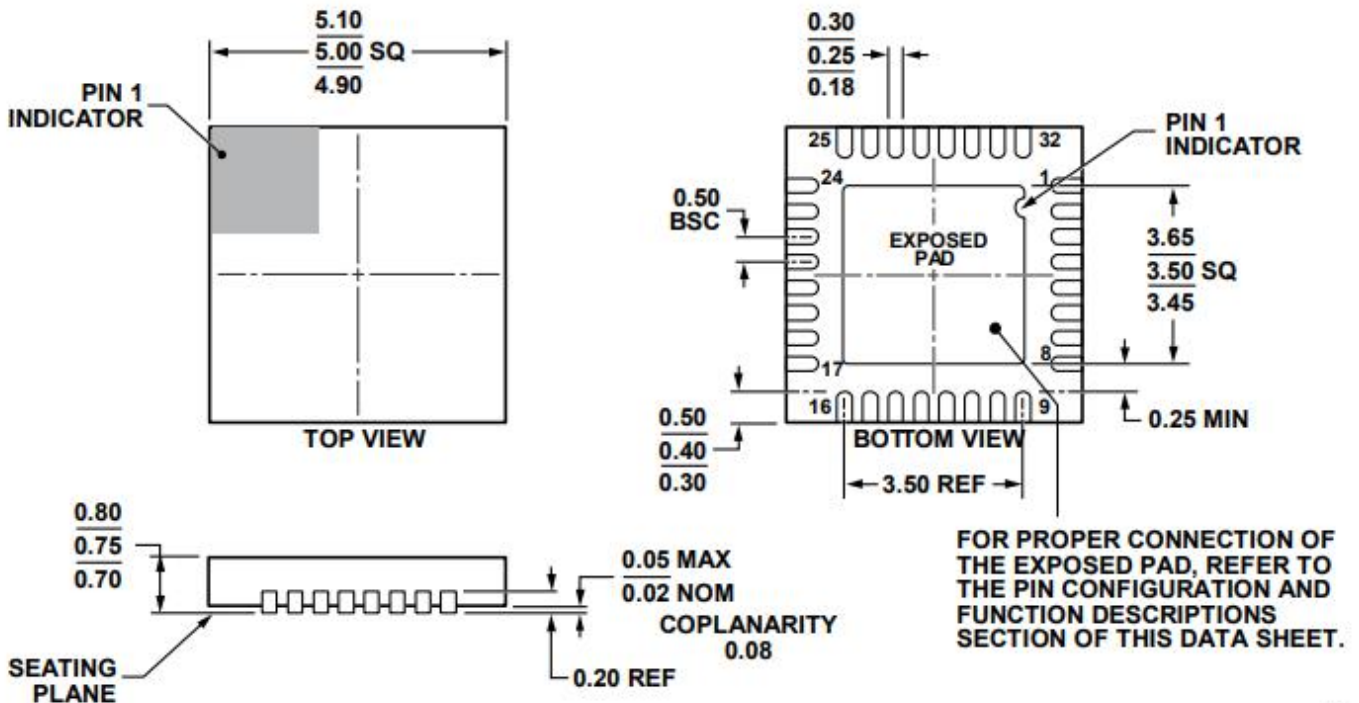
## External Visual Inspection Result:

External Visual Criteria	Yes/No	Result
Mix-up	No	Pass
Top Scratches	No	Pass
Bottom Scratches	No	Pass
Residues	No	Pass
Indentation	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

## 1. Device Description:

The AD9649 is a monolithic, single channel 1.8 V supply, 14-bit, 20/40/65/80 MSPS analog-to-digital converter (ADC). It features a high performance sample-and-hold circuit and an on-chip voltage reference.

## 2. Package Dimensions:



COMPLIANT TO JEDEC STANDARDS MO-220-WHHD.

Figure 56. 32-Lead Lead Frame Chip Scale Package [LFCSP\_WQ]  
 5 mm × 5 mm Body, Very Very Thin Quad  
 (CP-32-11)

Dimensions shown in millimeters



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## 3. Receiving Inspection:

Gross Weight	501 g	Parts Total	81 PCS
Number Of Boxes	1	Full Label	Acceptable
Package type	Tray	Moisture protection	Non Present
MSL	3	ESD protection	Non Present

Received View-1



Received View-2



Received View-3





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### 4. External Visual Inspection:

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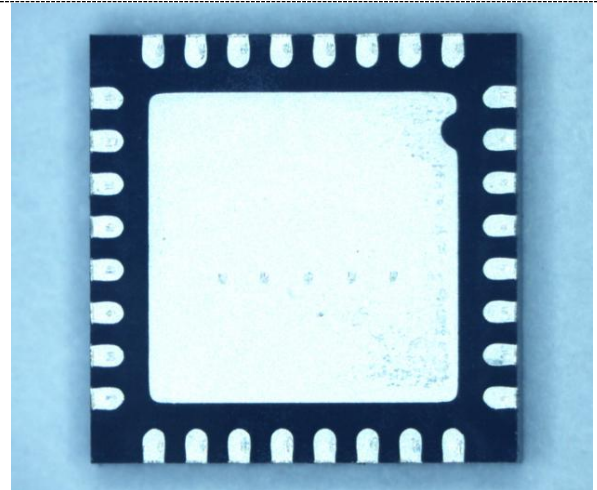


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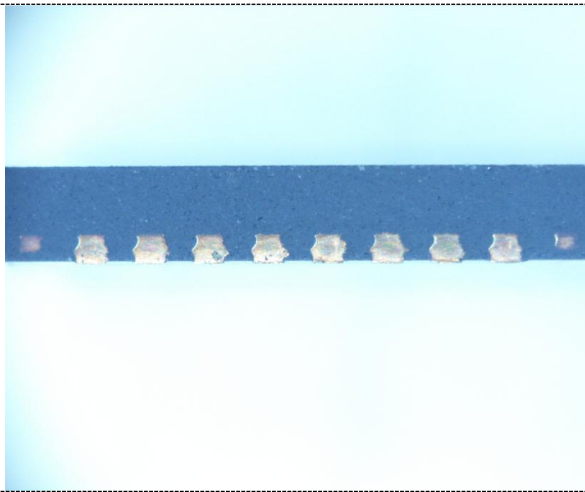
Top



Bottom



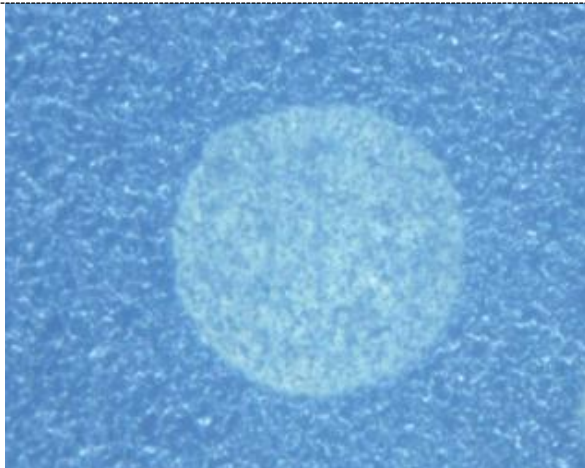
Side



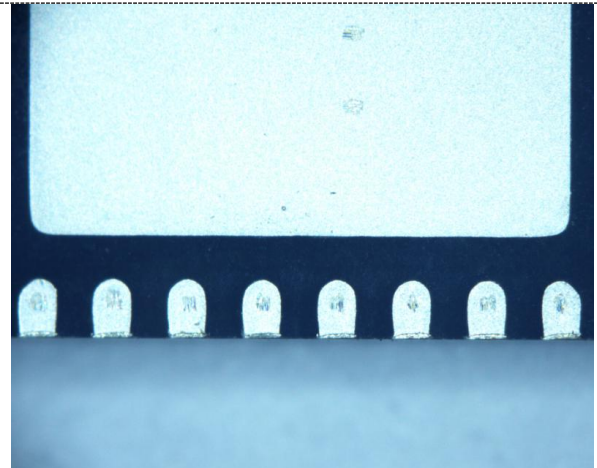
Laser Marking



Top Pin



Bottom Leads







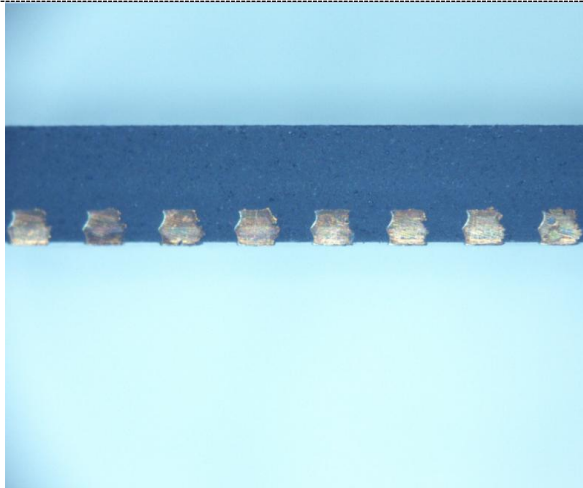
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Leads End



L = 5.02 MM



W = 5.01 MM



H = 0.81 MM



**End**



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CXO Lab WeChat official account

