



Chuangxin Online Test Center Laboratory

Add: F/r 401Building 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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Date:	2022/04/011
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Project Inspection Report

Company :
Address :
Sample Name : A3922KLPTR-T
Manufacture : ALLEGRO
Date Code : 2201
Package Type : SOP
Sample Number : 2000 PCS
Check Number : 3 PCS
Date of Received : 2022/03/30
Date of Tested : 2022/03/30/14:00 ~ 2022/03/31/15:00

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
Wei_Tao

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
- Ultrasonic scanning microscope Analysis (SAT)

Methods & Equipment

1.1 Applicable Standard

- AS6081

1.2 Optical Microscope

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

1.3 Ultrasonic scanning microscope (SAT)

- Equipment Spec:
Hardware: Sonoscan
Maximum resolution: 16384X16384
Select sound wave width: 0.25 nanosecond to 1 microsecond
Z-axis resolution: 5nm

1.4 Testing Environment

- Ambient Temperature: 25±5°C
- Relative Humidity: 45%-65% RH

1.5 Testing Base

- [ALLEGRO A3922KLPTR-T]

<https://datasheet.datasheetarchive.com/originals/dk/DKDS-11/204187.pdf>



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Analysis Summary

Ultrasonic scanning microscope Analysis:

Applicable Standard: AS6081

Ultrasonic scanning microscope Inspection on 3 PCS samples(#1-#3). No anomaly such as stratification and cavity was found.

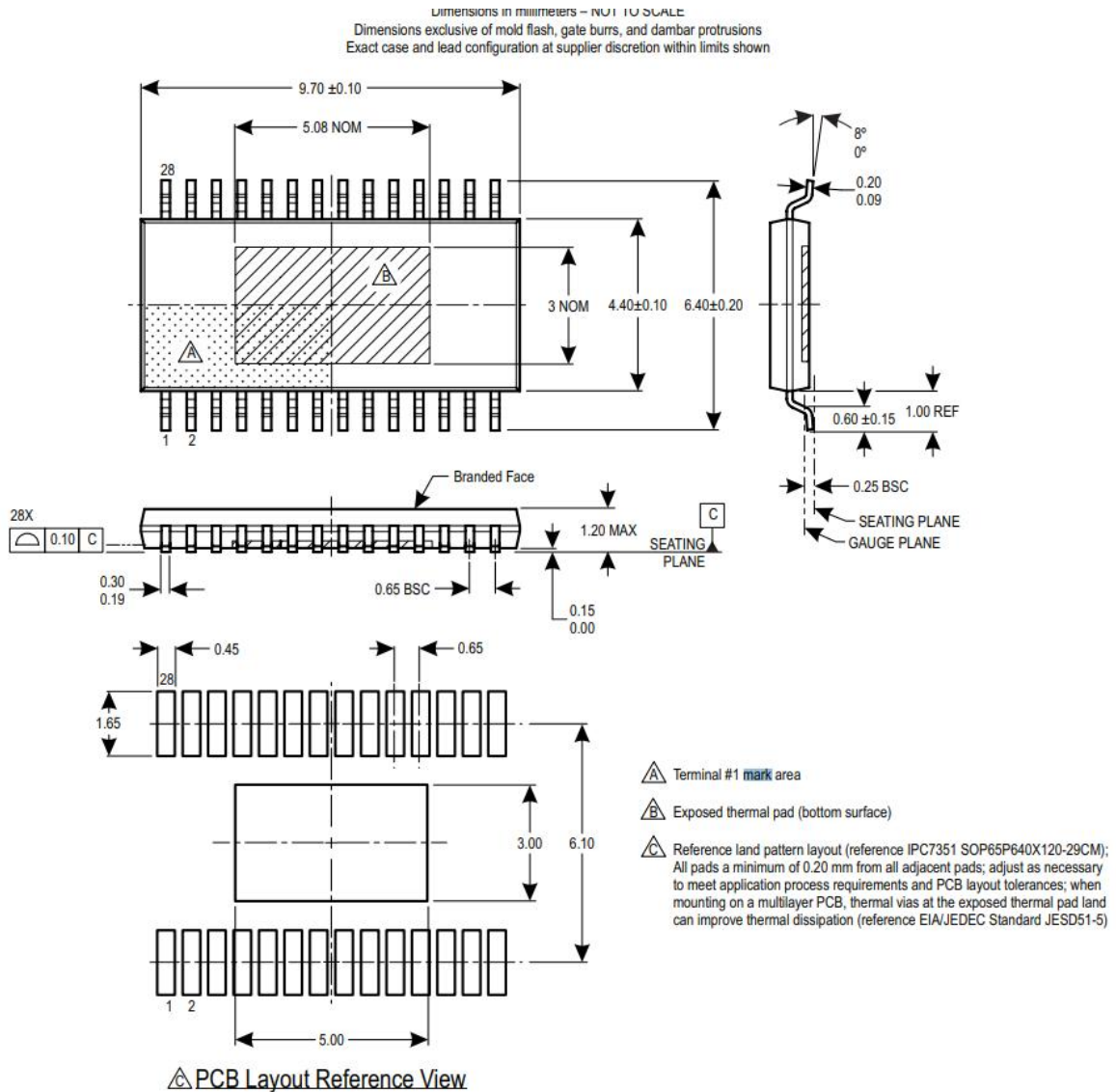


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1. Device Description:

The A3922 is an N-channel power MOSFET driver capable of controlling MOSFETs connected in a full-bridge (H-bridge) arrangement and is specifically designed for automotive applications with high-power inductive loads, such as brush DC motors solenoids and actuators.

2. Package Dimensions:





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3. Receiving Inspection:

Gross Weight	768 g	Parts Total	2000 PCS
Number Of Boxes	1	Full Label	Acceptable
Package type	Reel	Moisture protection	Non Present
MSL	N/A	ESD protection	Non Present

Note: All devices contain 2000 PCS samples.

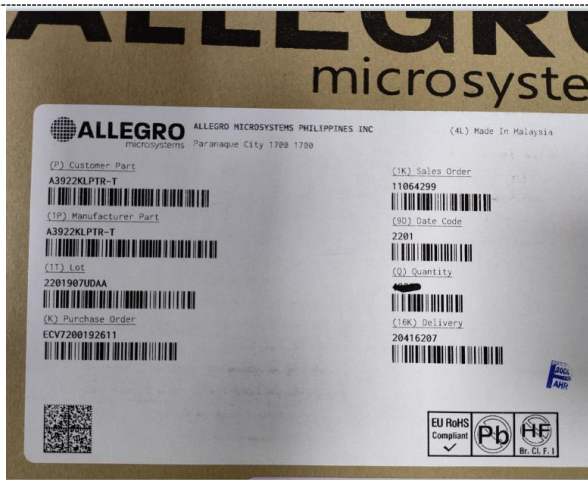
Received View-1



Received View-2



Received View-3



Received View-4





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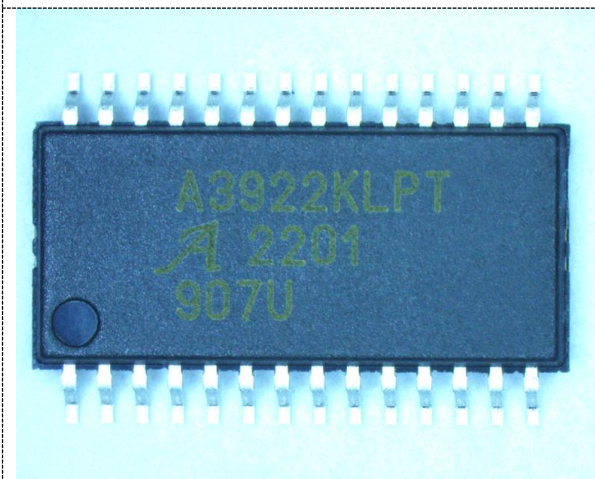
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4.Ultrasonic scanning microscope Analysis:

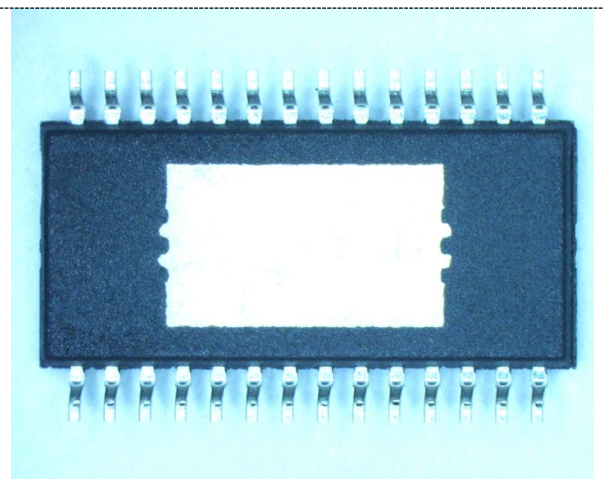
Applicable Standard: AS6081

Ultrasonic scanning microscope Inspection on 3 PCS samples(#1-#3). No anomaly such as stratification and cavity was found.

#1-Top



#1-Bottom





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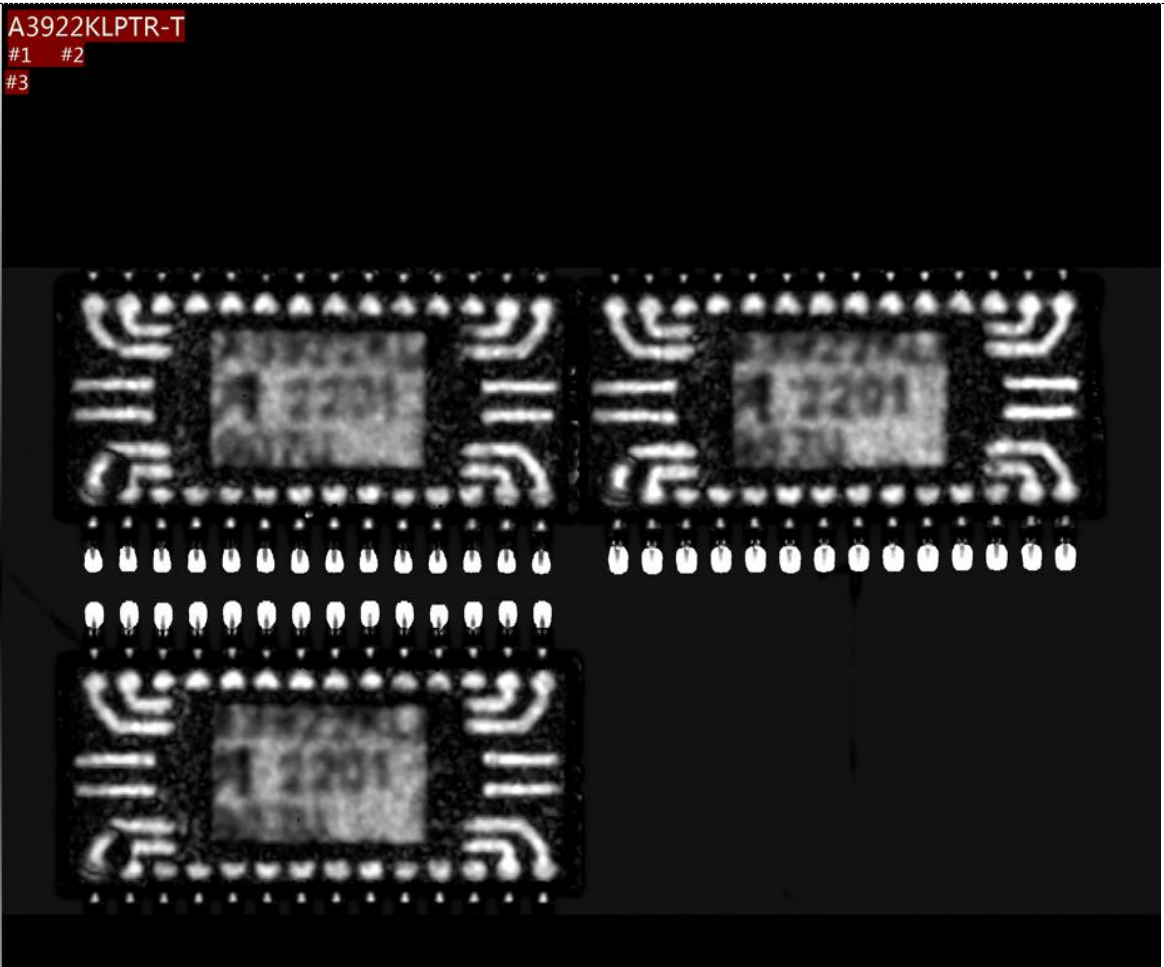
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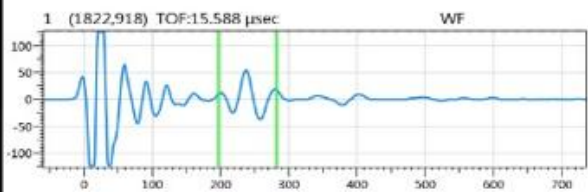
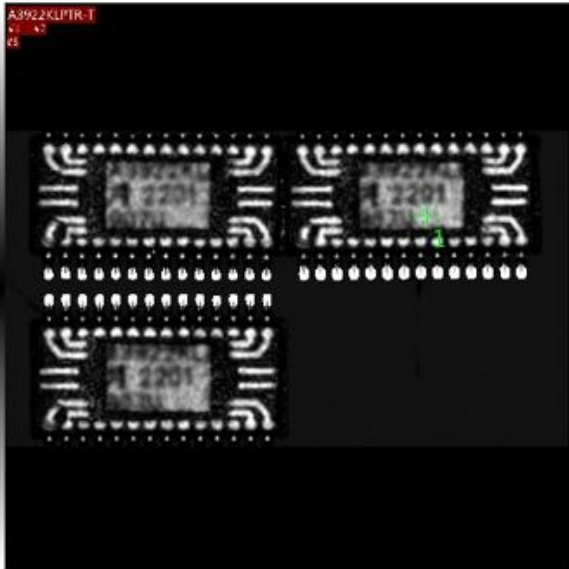
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IC-50MHz-Die-C

A3922KLPTR-T
#1 #2
#3



IC-50MHz-Die-A





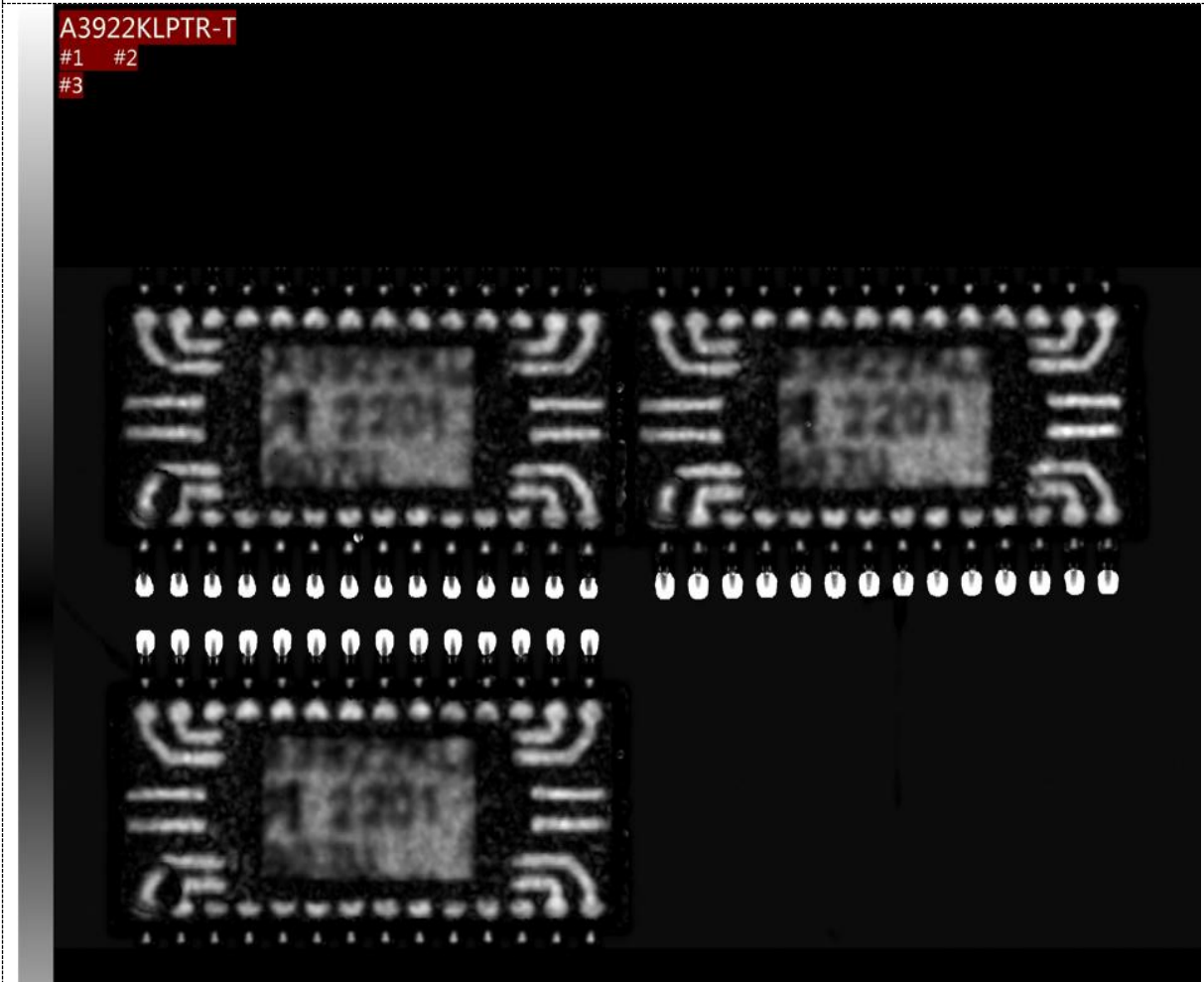
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IC-50MHz-Lead-C



IC-50MHz-Lead-A

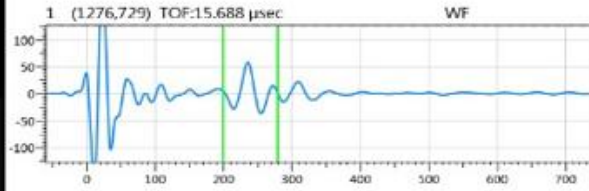
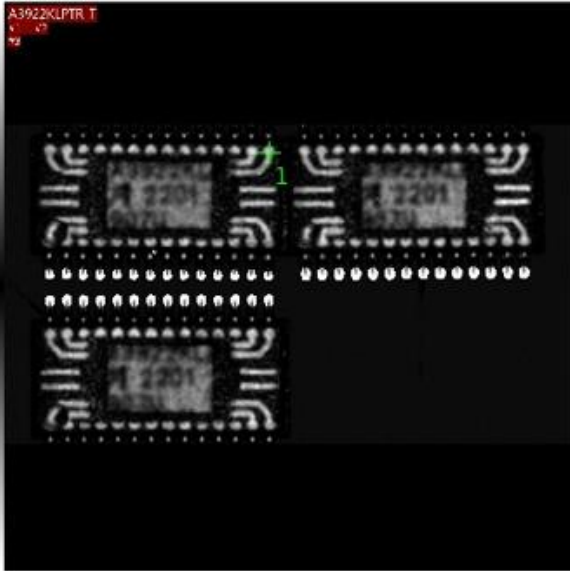


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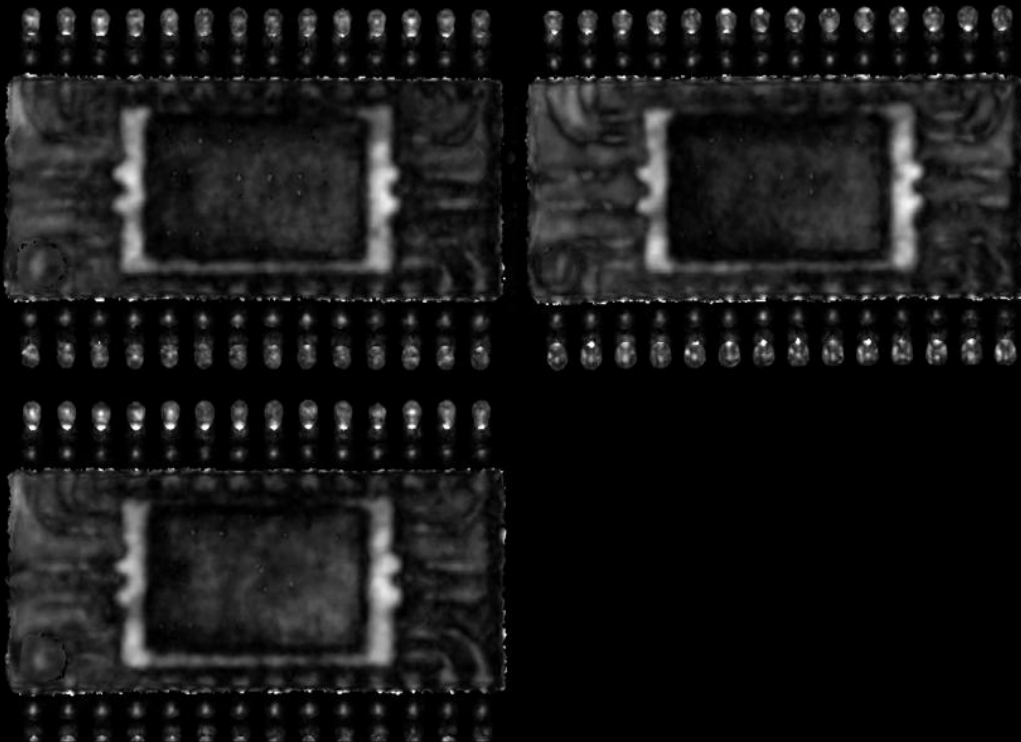
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IC-50MHz-Paddle-C

A3922KLPT-R

#1 #2
#3





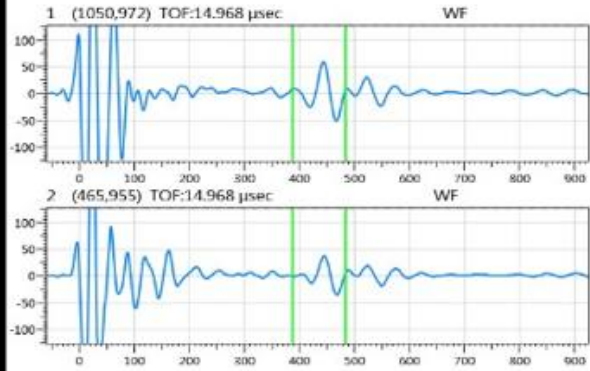
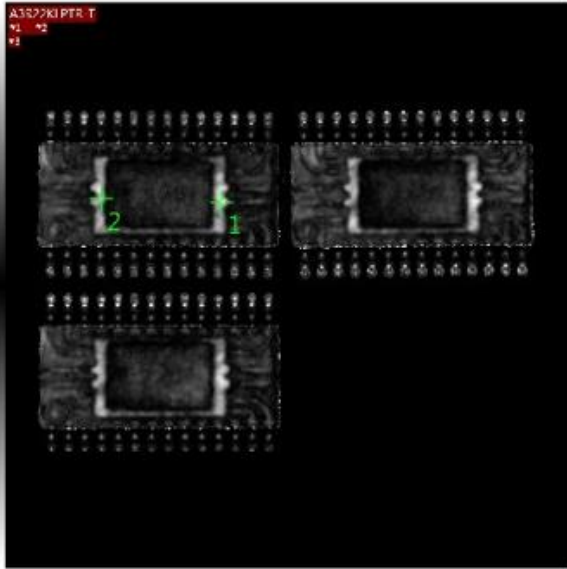
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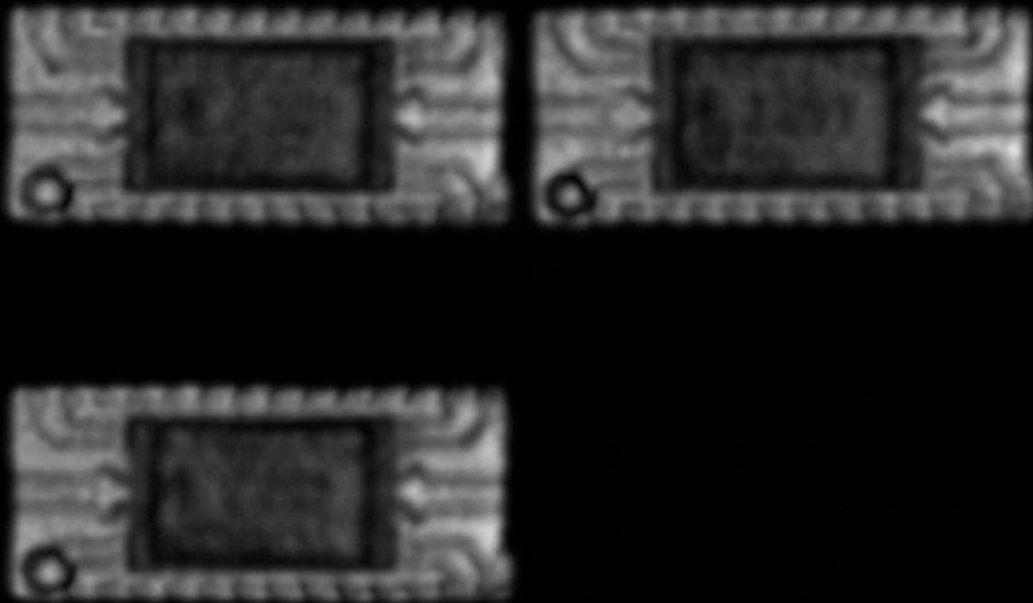
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IC-50MHz-Paddle-A



IC-50MHz-T

A3922KLPT-R
#1 #2
#3





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End

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CXO Lab WeChat official account

