

CNAS II





Add: F/r 401Building A, Ying Da Feng industrial No,393,Jihua Rd.LongGang Dis. Shenzhen China
Tel: 0755-83762185 Email: engineer@iclab-cn.com

 Report No:
 SZ12302020005

 Date:
 2020/12/30

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Project Inspection Report

Company : N/A

Address : N/A

Sample Name : 88E1111-B2-BAB1I000

Manufacture : Marvell

Date Code : <u>1824</u>

Package Type : BGA-117

Sample Number : 380 PCS

Check Number : 50 PCS

Date of Received : 12/29/2020

Date of Tested : 10:20/12/30/2020 ~ 12:00/12/30/2020

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.



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Items test

 External	visual	ins	pection

☐ 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

Methods & Equipment

1.1 Applicable Standard

MIL-STD-883K-2017 2009.13

1.2 Optical Microscope

Equipment Spec:

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

FJ-3A: $X50 \sim X500$

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

[Marvell 88E1111-B2-BAB1I000]

https://easydatasheet.cn/static/pdf view/viewer.html?file=https://easydatasheet.cn/pdf/ view/bb5a9554dc0417bcdda644483e3dc233bfb0a579.pdf







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Analysis Summary

External Visual Inspection:

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

External Visual Inspection on 50 PCS samples marked with D/C 1824. No sanding marks, crack or chips were observed on all inspected. Evidence of secondary coating was found on all inspected. Device failed top permanency tested. Substrate show residues on all inspected. BGA show indentation on all inspected. Devices package and dimension matched to manufacturer's specification. All devices failed the external visual inspection.

Specification dimension:

D: 9.90 - 10.10 MM

E: 13.90 - 14.10 MM

A: 1.54 MAX MM

Measurement dimension:

D: 10.03 MM E: 14.06 MM A: 1.39 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
Contamination	No	Pass
Cracks	No	Pass
Copper defect	No	Pass
Indentation	Yes	Exist
Residues	Yes	Exist
Oxidization	No	Pass
Coplanarity	Yes	Pass
Sanding Marks	No	Pass
Secondary Coating	Yes	Failed
Top permanency test	Yes	Failed



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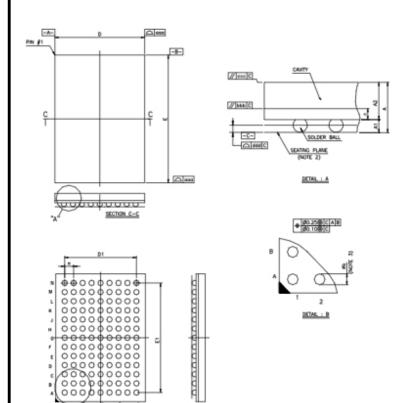
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1. Device Description:

Tel: 0755-83762185

The Alaska® Ultra88E1111 Gigabit Ethernet Transceiver is a physical layer device for Ethernet 1000BASE-T, 100BASE-TX, and 10BASE-T applications. It is manufactured using standard digital CMOS process and contains all the active circuitry required to implement the physical layer functions to transmit and receive data on standard CAT 5 unshielded twisted pair.

2. Package Dimensions:



	Dimensio	ns in mm	
Symbol	MIN	NOM	MAX
A		-	1.54
A1	0.40	0.50	0.60
A2	0.84	0.89	0.94
С	0.32	0.36	0.40
D	9.90	10.00	10.10
E	13.90	14.00	14.10
D1		8.00	-
E1		12.00	-
e		1.00	
b	0.50	0.60	0.70
aaa		0.20	,
bbb		0.25	
ccc		0.35	
ddd		0.15	
MD/ME			

NOTE:

- 1. CONTROLLING DIMENSION: MILLIMETER.
- PRIMARY DATUM C AND SEATING PLANE ARE DEFINED BY THE SPHERICAL CROWNS OF THE SOLDER BALLS.
- DIMENSION 6 IS MEASURED AT THE MAXIMUM SOLDER BALL DIAMETER, PARALLEL TO PRIMARY DATUM C.



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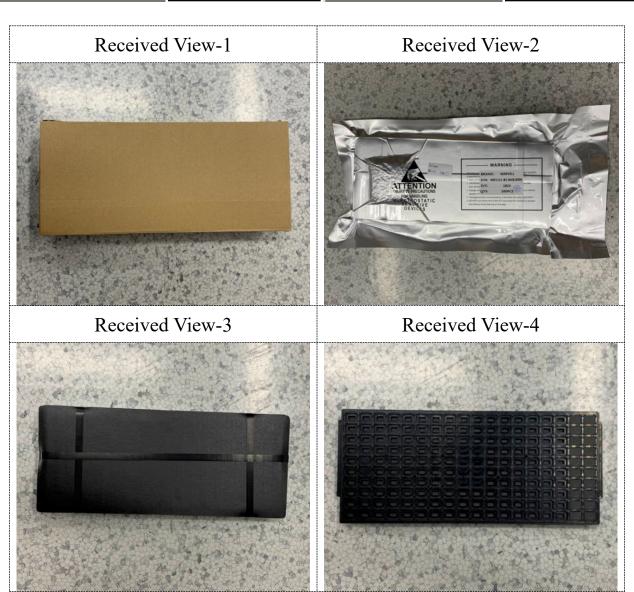
Email: engineer@iclab-cn.com



3. Receiving Inspection:

Tel: 0755-83762185

Gross Weight	950 g	Parts Total	380 PCS
Number Of Boxes	1	Full Label	Non Present
Package type	Tray	Moisture protection	Acceptable
MSL	N/A	ESD protection	Acceptable





<u>CNA</u>





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4. External Visual Inspection:

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

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Specification dimension:

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E: 13.90 - 14.10 MM

A: 1.54 MAX MM

Measurement dimension:

D: 10.03 MM E: 14.06 MM A: 1.39 MM





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Bottom Pin



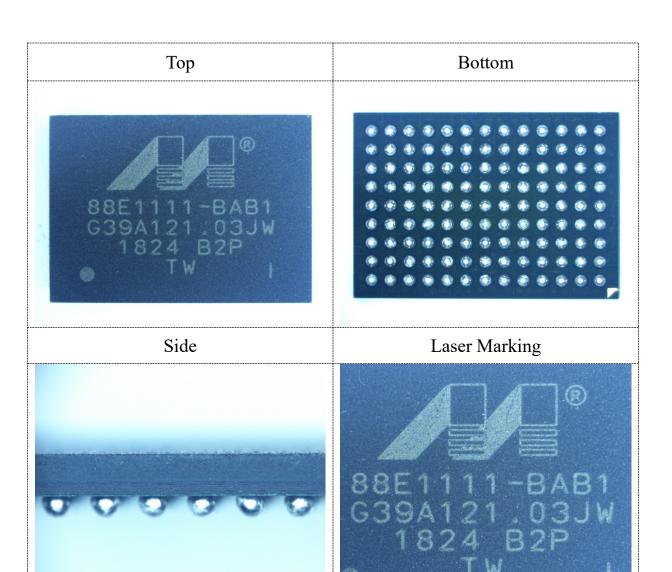


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Top Pin

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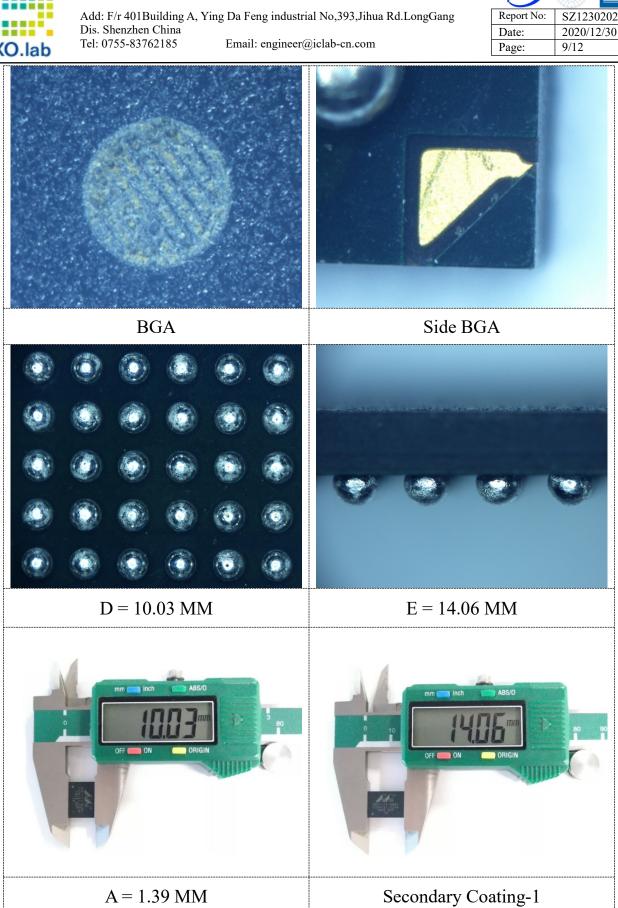








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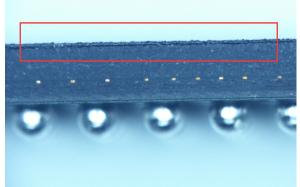


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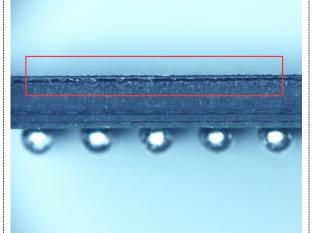


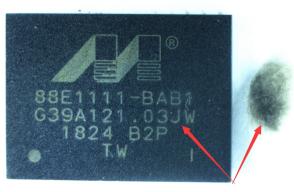




Secondary Coating-2

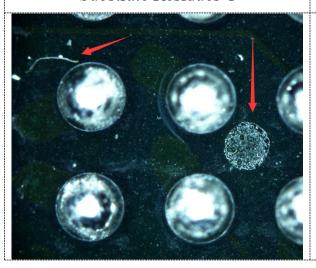
Top Permanency Tested (Failed)

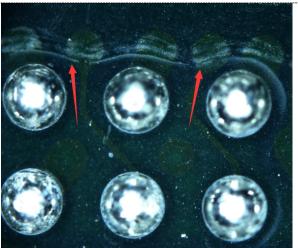




Substrate Residues-1

Substrate Residues-2









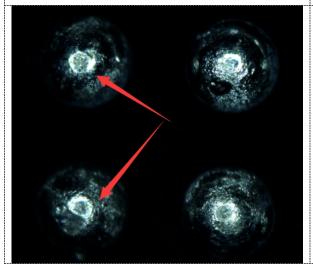




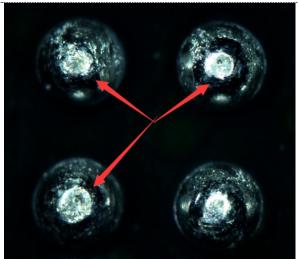
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BGA Indentation-1



BGA Indentation-2









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For more information, please visit: https://www.iclab-cn.com

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