

CSI Inspection Report

Inspection Parameters

Classic SO#	
Customer Name	
Customer PO#	
Date Received	04/12/21
Manufacturer	SONY
Manuf. Part Number	CX20084-T4
Internal Part Number	
Part Description	Integrated Circuit
Order Quantity	17
Received Quantity	17
Lot Code	N/A
Date Code	0629
Report Number	745405
QC Inspector Name	Ivan P.

Inspection Checklist

Passed	Failed	N/A	Inconclusive	Qty Insp	Inspection Categories
		✓		-	00 Inspection Summary
✓				17	A1 Documentation and Packaging
✓				17	A2 External Visual Inspection
✓				17	Component Dimensions
✓				6	A3 Remarking & Resurfacing
		✓		-	A4 Radiological (X-Ray) Inspection
✓				3	A5 Lead Finish Evaluation using XRF
✓				1	A6 Delid/Decapsulation Internal Analysis
✓				1	H1 Solderability
		✓		-	H2 Scrape Test

* **Passed:** Product Passed accordingly to the specific inspection and/or test performed

* **Failed:** Product Failed accordingly to the specific inspection and/or test performed

* **N/A:** Product inspection and/or test does not apply for the specified product

QCM Name

Marco Vergara

QCM Signature

On File

Date

09/04/24

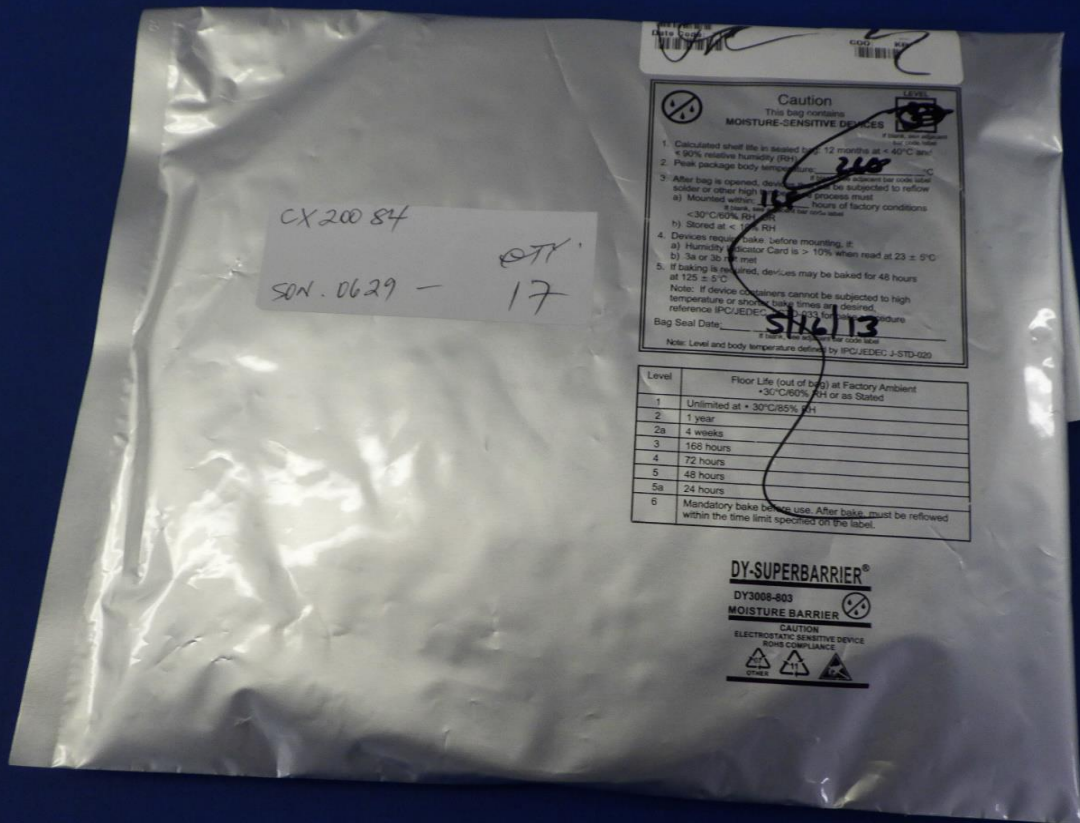
P/N: CX20084-T4

Date Code: 0629

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A1 Documentation and Packaging

Internal Packaging



Internal Packaging reveals P/N CX20084-T4 was packaged within 1 ESD Approved Anti Static Bag to offer better protection for the product carrier as well as the MSL 1 parts themselves. No damages were detected or reported.

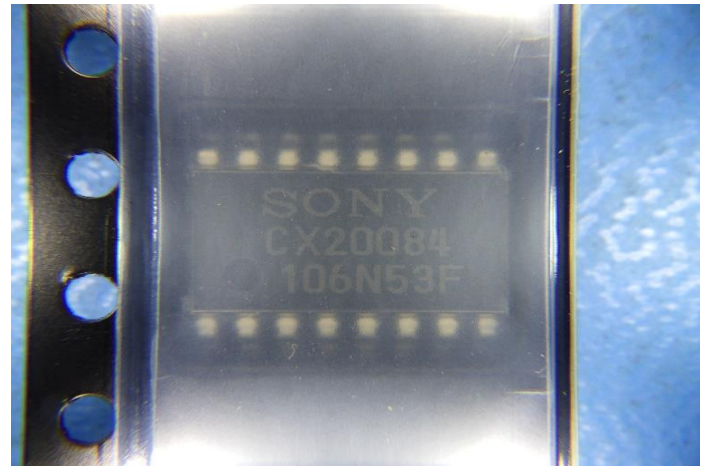
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A1 Documentation and Packaging

Product Carrier



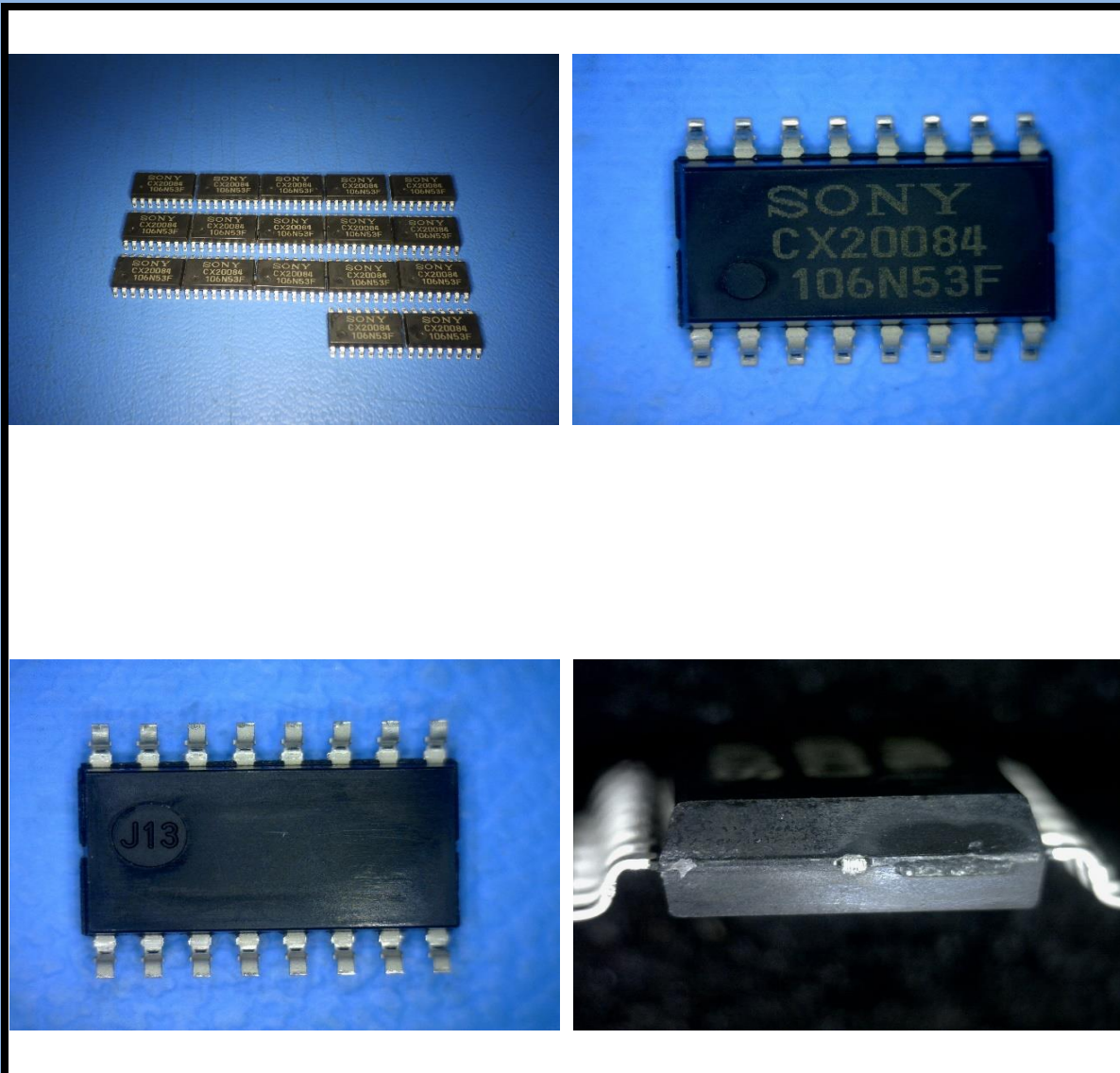
The carrier method used was 1 cut tape and reel containing a total of 17 pcs. The manufacturing label displays related information about the components such as date code, lot code, country of origin, etc. P/N CX20084-T4 in this case was later found to be date code "0629", made in China, but the lot code was N/A.

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A2 External Visual Inspection



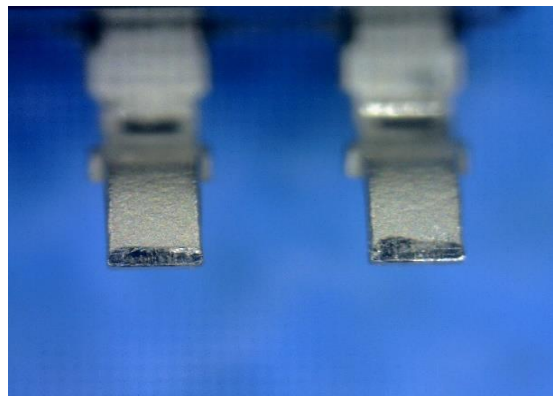
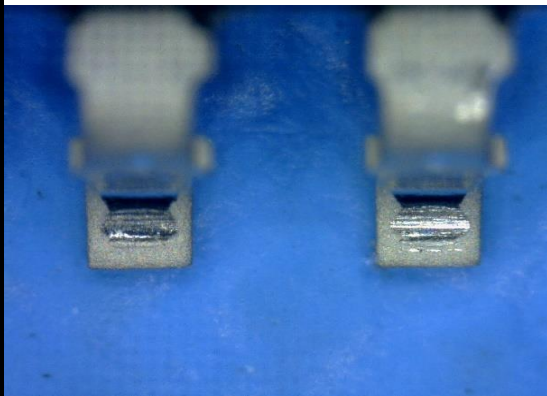
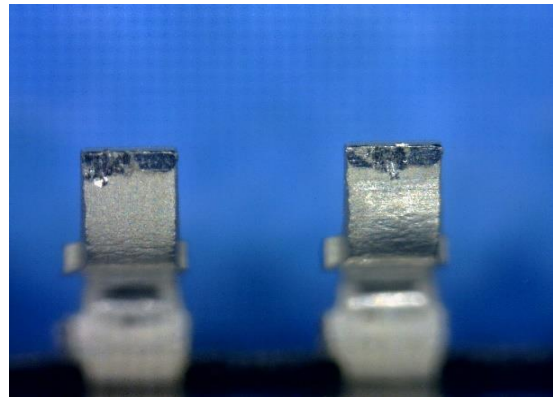
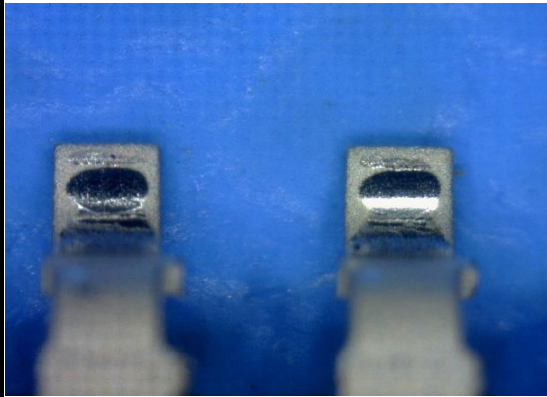
Product detailed inspection was performed on a sampling size of 17pcs.
No abnormalities were found.

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A2 External Visual Inspection



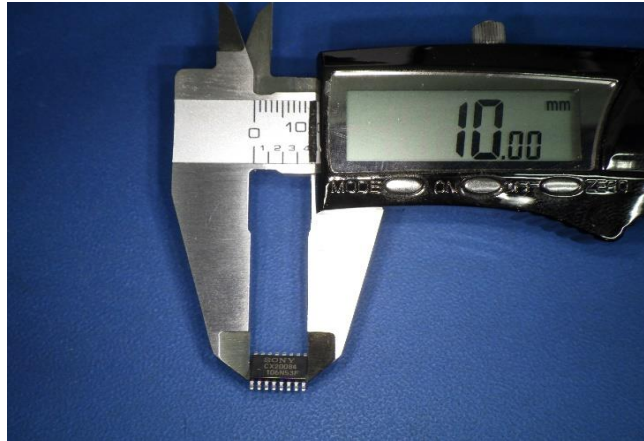
Detailed Lead inspection was performed on a sampling size of 17pcs
No abnormalities were found.

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A2 External Visual Inspection Component Dimensions



MEASURED PART DIMENSIONS (IN MM)		
Actual Dim.	In Spec.	Measurement
10.00 mm	10.00 mm	Length
5.40 mm	5.40 mm	Width
1.90 mm	1.90 mm	Height

NIST/ISO 17025 Traceable Equipment Utilized During Processing				
Equipment Used	Serial #	Cal. Date	Cal. Due Date	Tolerance
General UltraTech Caliper	154577	09/14/23	09/13/24	± 0.001"

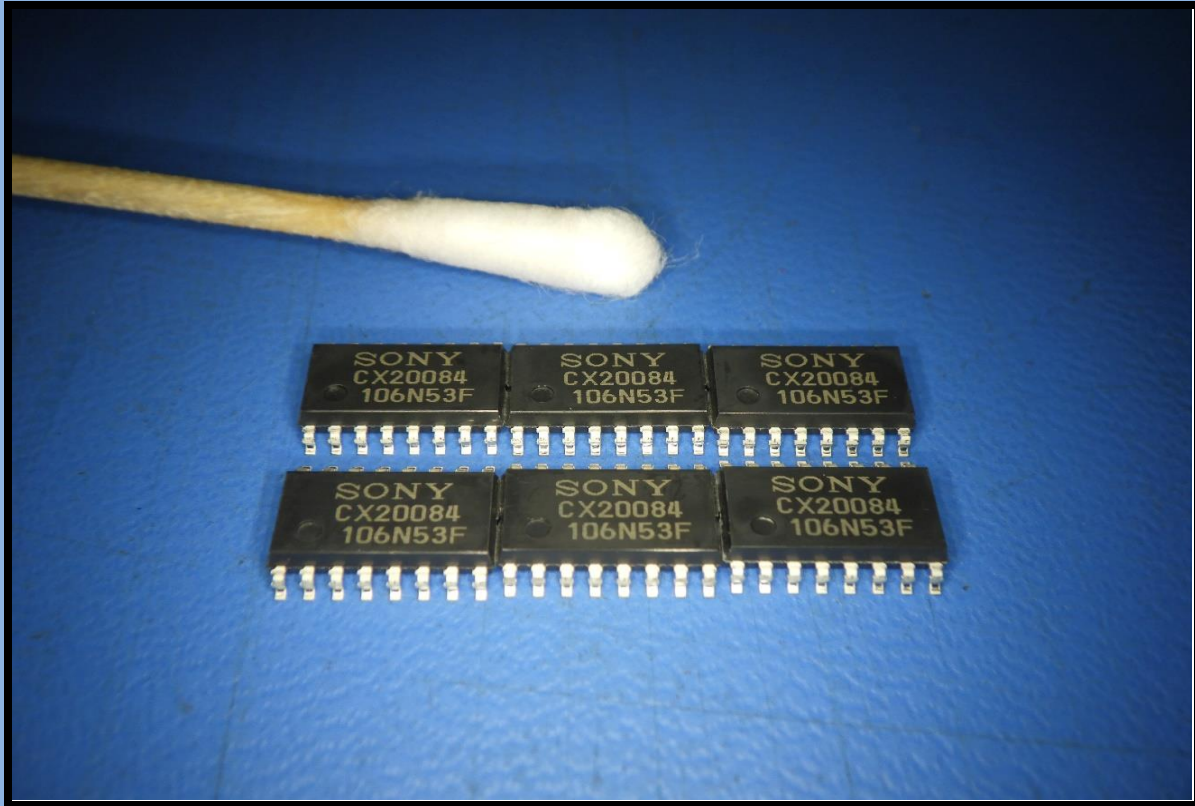
A sampling size of 17pcs was used to measure the components' dimensions but only one is shown above.
We located the datasheet but we were unable to locate the dimensions specification sheet.

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A3 Remarking & Resurfacing (**Acetone**)



A Chemical wipe test using acetone was performed on **6pcs**.
No signs of blacktopping or any extraneous matter was found.

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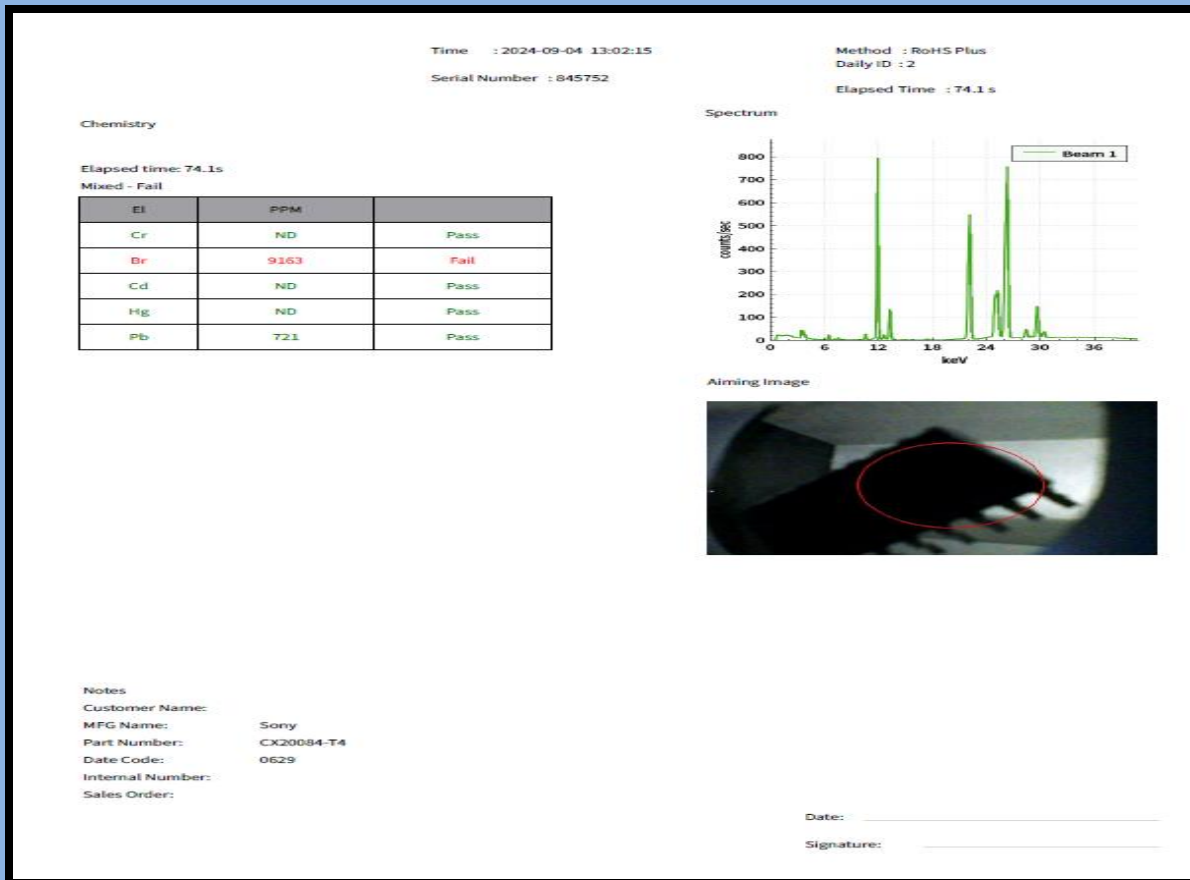
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A5 Lead Finish Evaluation using XRF

Yes	No	N/A	Check For:
✓			RoHS / Lead Free
Yes	No	N/A	Elements:
✓			Lead < 1000 ppm
✓			Mercury < 1000ppm
✓			Cadmium < 100 ppm
✓			Chromium < 1000 ppm
✓			Bromine < 1000 ppm
		✓	Other 1 (Description)
		✓	Other 2 (Description)

XRF Inspection Photos



NIST/ISO 17025 Traceable Equipment Utilized During Processing

Equipment Used	Serial #	Cal. Date	Cal. Time	Spec
Olympus Vanta M-Series	845752	09/04/24	8:35 AM PST	N/A
Tolerance: Tolerances specified on test report below				

P/N: CX20084-T4

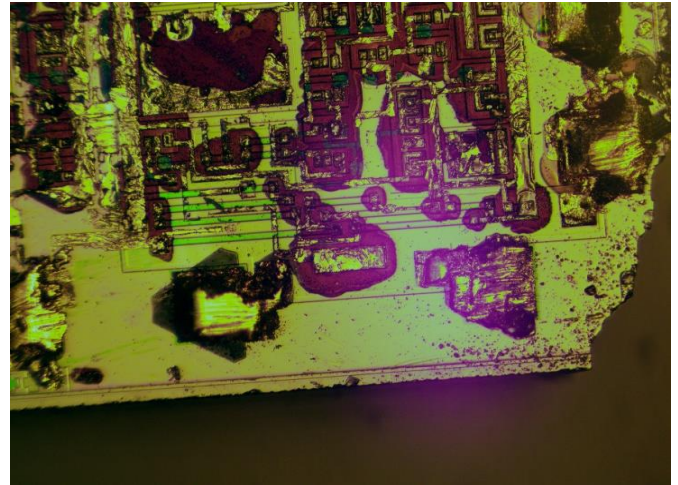
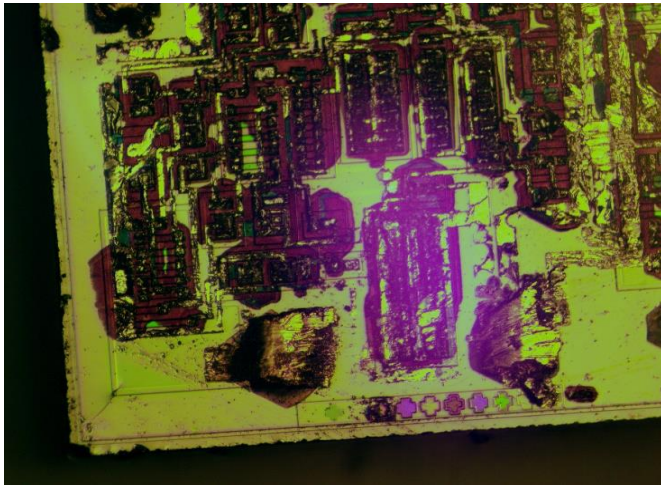
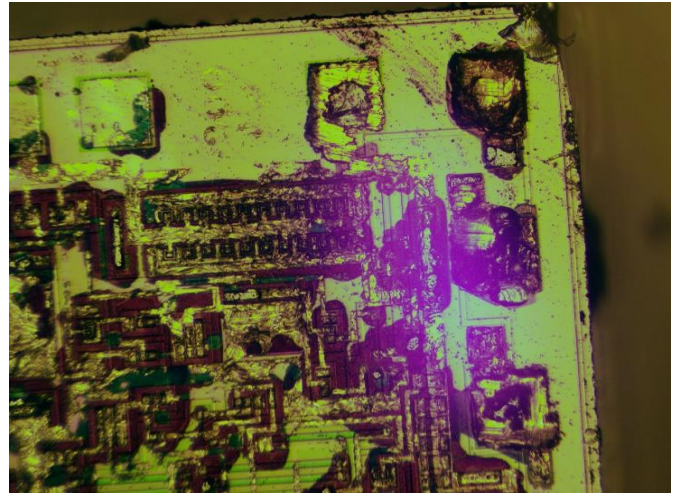
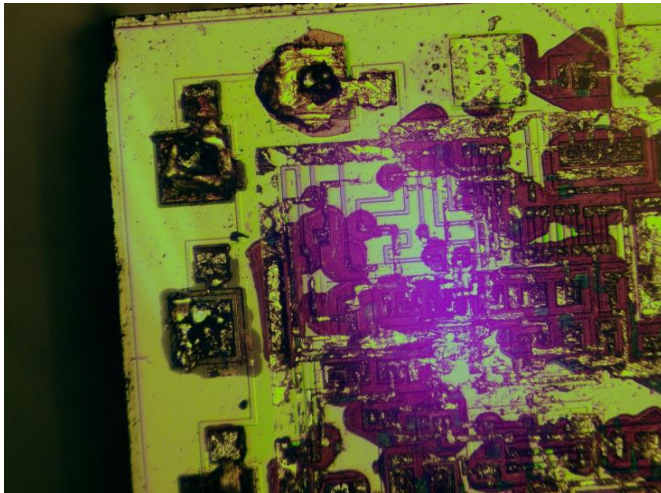
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A6 Decapsulation

Described Decapsulation Recipe				
ACID %	HNO ₃ :	H ₂ SO ₄ :	Temperature:	Time (seconds):
	90	10		120
MODE:		Pulse		Rinse (seconds):
	✓	Vortex		10
Markings Found & Notes				
Manufacturer & Logo			N/A	
Manuf. Part Number			N/A	
Date or Markings			N/A	
Do die markings match manuf. spec?			N/A	
Does die match a reference part?			N/A	

Die Images



P/N: CX20084-T4

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H1 Solder Test Report & Photo

Solder Test Report



Customer Name	
Customer P.O.	
SO #	
Date	09/04/24

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Line	Part Number & Description	Quantity
1	Part Number: CX20084-T4 Internal: MFG: Sony Date Code: 0629	1 pc
Lead Process Description		Results
1 pc from each datecode was tested per J-STD-002D solderability		PASS

Equipment Used	Serial #	Model #	Last Cal Date	Next Cal Date
Plato Solder Pot	5483-12	SP-S00TP	09/19/2023	09/19/2024

We hereby certify that the following paragraphs apply to the parts described above:

The services provided on this order and covered by this certificate have been supplied in accordance with all applicable requirements, instructions and specifications.

Data pertaining to this order is on file and available for inspection.

Quality Representative			
Name	Title	Signature	Date
Marco Vergara	Quality Control Manager	On File	09/04/2024

