 <p>Airtech International, Inc. 2 Piermont Road Cresskill, NJ 07626 USA</p>	Parts and Materials Inspection Report			
	Customer Name	ROMEO	SAMPLE TEST	Original Sample -1EA Revision D3 -1EA Revision D5 -1EA
	Part Number	PC203-PBN		
	Manufacturer	PICOCHIP	Qty	3

Test-Process Operation	Quantity Inspected	Pass	Fail	N/A	Comments / Observations
EXTERNAL					
Documentation & Packaging (AS6081, Section 4.2.6.4.1)					
Contract Review Items	3	3	0		
Box/Content Condition	3	3	0		
General Visual Inspection (AS6081, Section 4.2.6.4.2.1)					
Single Shipment	3	3	0		
Detailed Visual Inspection (AS6081, Section 4.2.6.4.2.2)					
Package Condition	3	3	0		
BGA Balls Condition	3	3	0		
Dimensions	3	N/A	N/A		Data sheet Dimension - Not Applicable
Re-Marking/Re-Surfacing Test (AS6081, Section 4.2.6.4.3)					
3:1 Marking Permanency	3	3	0		
Acetone Swap Test	3	3	0		
Re-Marking/Re-Surfacing Test (AS6081, Section 4.2.6.4.3)					
1-Methyl 2-Pyrrolidinone	3	2	1		Fail Issue : Black Topping - (Revision D3)
Dynasolve 750	3	1	2		Fail Issue : Repainting ,Black Topping ,Remarking - (Revision D3) Fail Issue : Repainting ,Black Topping - (Revision D5)
INTERNAL					
X-Ray Inspection (AS6081, Section 4.2.6.4.4)					
Internal Construction	3	3	0		
Lead Finish Evaluation (AS6081, Section 4.2.6.4.5)					
XRF Analysis	3	3	0		
Delid/Decapsulation Internal Analysis - destructive (AS6081, Section 4.2.6.4.6)					
Delid/Decapsulation	3	N/A	N/A		Die Marking Logo, Date Code, Part Number - Not Applicable

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1 Of 21

Parts and Materials Inspection Report

Customer Name	ROMEO	Customer P/O	Original Sample -1EA Revision D3 -1EA Revision D5 -1EA
Part Number	PC203-PBN		
Manufacturer	PICOCHIP	Qty	3

General Criteria	Result	Sample Qty	Comments
General Visual Inspection (AS6081, 4.2.6.4.1, 4.2.6.4.2.1 1 through 5)			
Contract Review	C		
Lot/Date Code Consistent	C		
Manufacturer's Logo Matches Published	C		
There are no misspelled words, alteration or changes to documentation.	C		
Packaging Materials are consistent	C		
Parts Received in a Single Shipment	C		
Parts are marked as an identical lot	C		
Parts are identical in appearance to the unaided eye	C		
Consistent Handling/Storage	C		
No Evidence of Separation	C		
GIDEP Verification	C		
Package - Detailed Visual Inspection (AS6081, 4.2.6.4.2.2, 1 through 4 and C)			
Pin/Ball Count	C	3	
Package Type	C	3	
Dimensions	C	3	
Verify Pin 1 Placement	C	3	
Markings-Top	C	3	
Markings- Bottom	N/A	N/A	
Country of Origin	C	3	C.O.O : TAIWAN
Mold Cavity	C	3	
No evidence of Previous Markings	C	3	
Verify part logo	C	3	

Result: C: Conforming, NC: Non Conforming, S: Suspect, N/A: Not Applicable

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Parts and Materials Inspection Report

Customer Name

ROMEO

Customer P/O

Original Sample -1EA
Revision D3 -1EA
Revision D5 -1EA

Part Number

PC203-PBN

Manufacturer

PICOCHIP

Qty


3

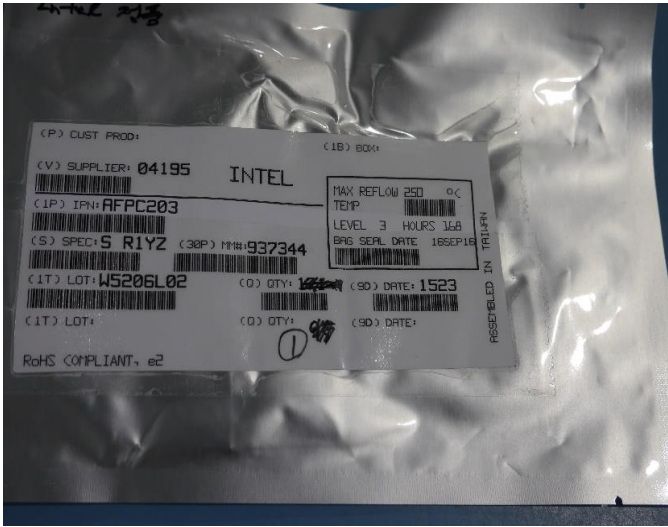
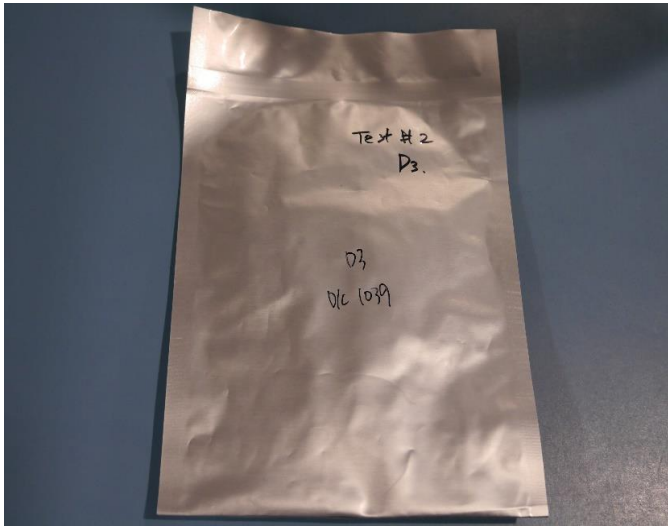
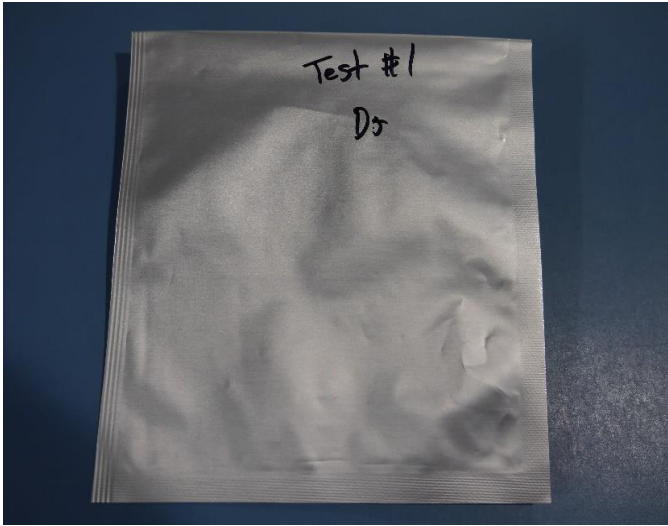
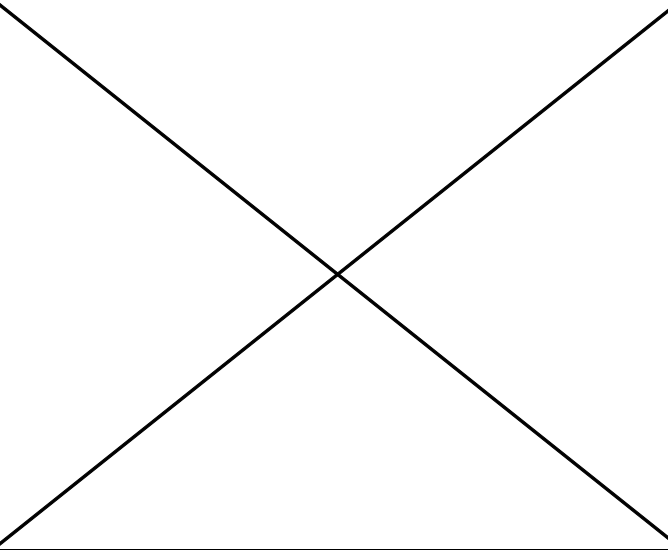
Criteria	Result	Sample Qty	Comments
CGA columns and BGA Ball Interconnects (AS6081, 4.2.6.4.2.2B)			
Discoloration, dirt, or residues on the solder spheres or columns	C	3	
Crushed or flattened BGA solder spheres	C	3	
Misaligned columns	C	3	
Non-uniform size and shape of solder spheres	C	3	
BGA Package Conditions (AS6081, 4.2.6.4.2.2D)			
Uneven thickness of the packages	C	3	
Dimples with uneven depth	C	3	
Visible scratch marks or unidirectional abrasions	C	3	
Significant package variation for parts with the same date/lot code	C	3	
Differences in the corner radius between the top and bottom surfaces	C	3	
Cracks or visible damage such as burn marks	C	3	
Color discrepancy between the top and bottom of the part	C	3	
Glue, adhesives, or other residues on the surface of the package	C	3	
Evidence of color fade on the body of the part	C	3	
Signs of corrosion on body of part or exposed areas of the leadframe	C	3	
BGA Ball Packages Condition (AS6081, 4.2.6.4.2.2E)			
Solder Mask Damage	C	3	
Solder on exposed plating away from solder spheres	C	3	
Scratches in mask underneath solder sphere	C	3	
Debris or residue between solder spheres	C	3	
Solder dross on the solder mask	C	3	
Solder mask touchup or repair	C	3	

Result: C: Conforming, NC: Non Conforming, S: Suspect, N/A: Not Applicable


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 Airtech International, Inc. 2 Piermont Road Cresskill ,NJ 07626 USA	Parts and Materials Inspection Report			
	Customer Name	ROMEO	Cotumer P/O	Original Sample -1EA Revision D3 -1EA Revision D5 -1EA
	Part Number	PC203-PBN		
	Manufacturer	PICOCHIP	Qty	3

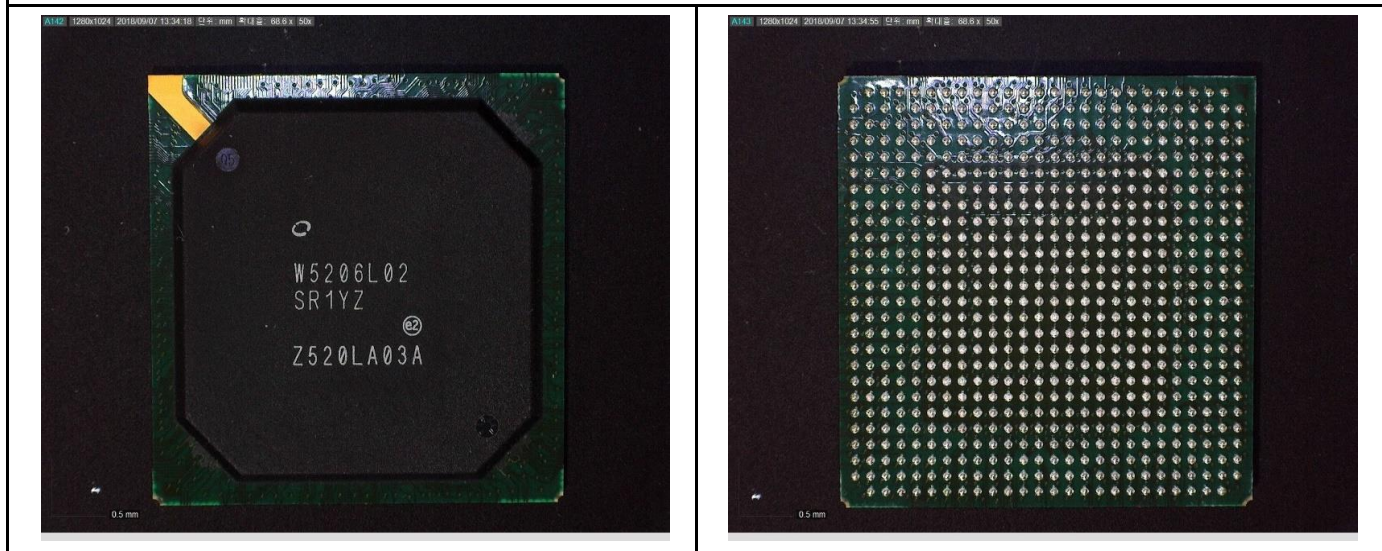
Device's Packaging / Device's Condition	
Test Equipment Model DMC-GF6 Digital Camera , Digital 20X~220X Microscope AM4115ZT , HIROX RH-2000 50X~400X Microscopy	
	
Original Sample Device's Packaging	Revision D3 Device's Packaging
	
Revision D5 Device's Packaging	

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4 Of 21

 Airtech International, Inc. 2 Piermont Road Cresskill ,NJ 07626 USA	Parts and Materials Inspection Report			
	Customer Name	ROMEO	Customer P/O	Original Sample -1EA Revision D3 -1EA Revision D5 -1EA
	Part Number	PC203-PBN		
	Manufacturer	PICOCHIP	Qty	3

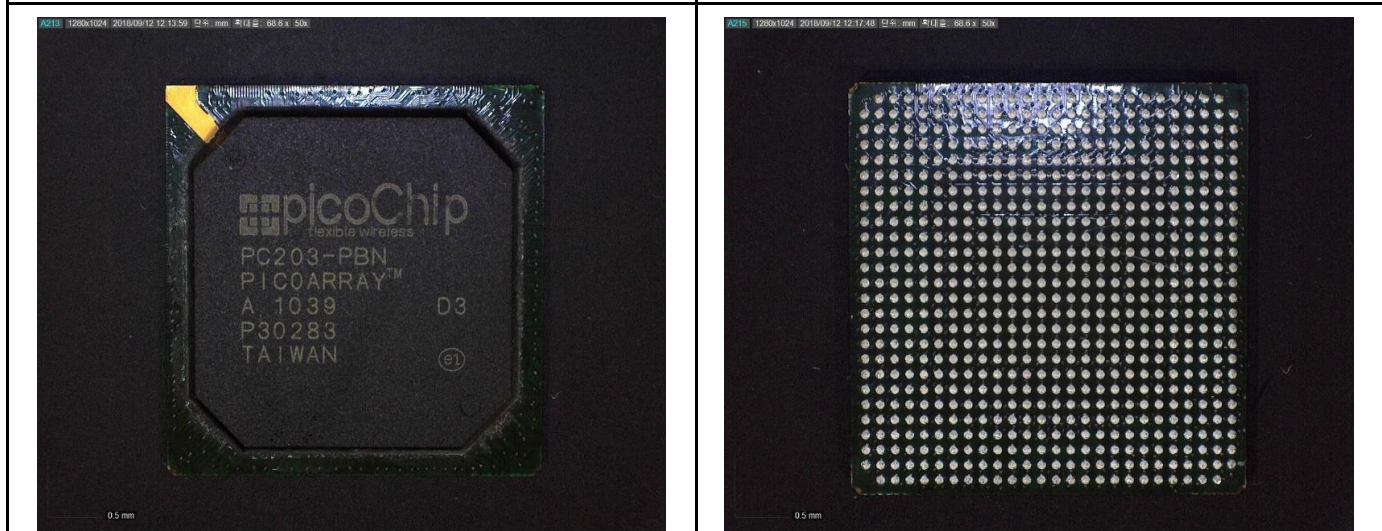
Device's Packaging / Device's Condition

Test Equipment Model DMC-GF6 Digital Camera , Digital 20X~220X Microscope AM4115ZT , HIROX RH-2000 50X~400X Microscopy



Original Sample - Top View

Original Sample - Bottom View




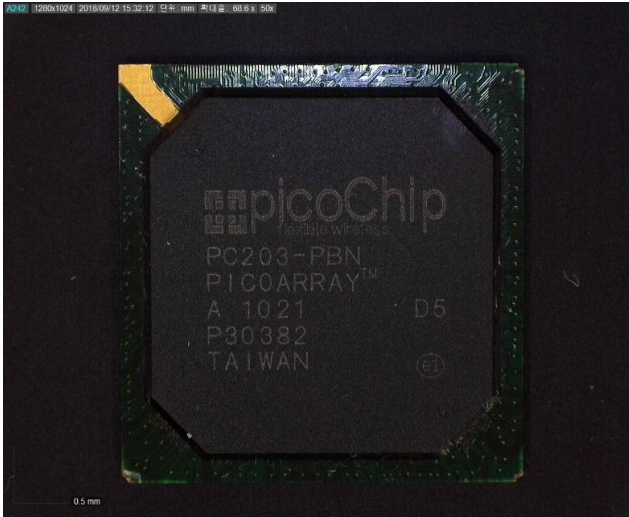
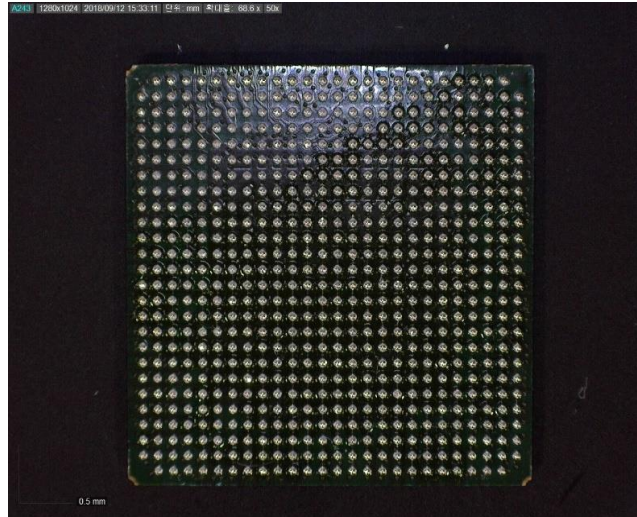
Revision D3 - Top View

Revision D3 - Bottom View


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 Airtech International, Inc. 2 Piermont Road Cresskill ,NJ 07626 USA	Parts and Materials Inspection Report			
	Customer Name	ROMEO	Customer P/O	Original Sample -1EA Revision D3 -1EA Revision D5 -1EA
	Part Number	PC203-PBN		
	Manufacturer	PICOCHIP	Qty	3


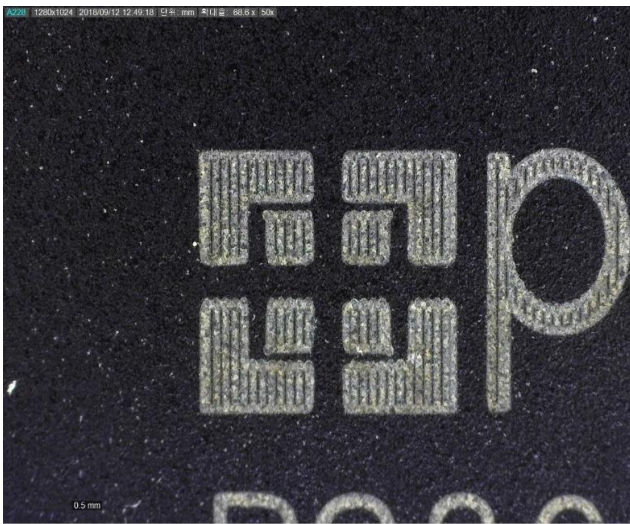
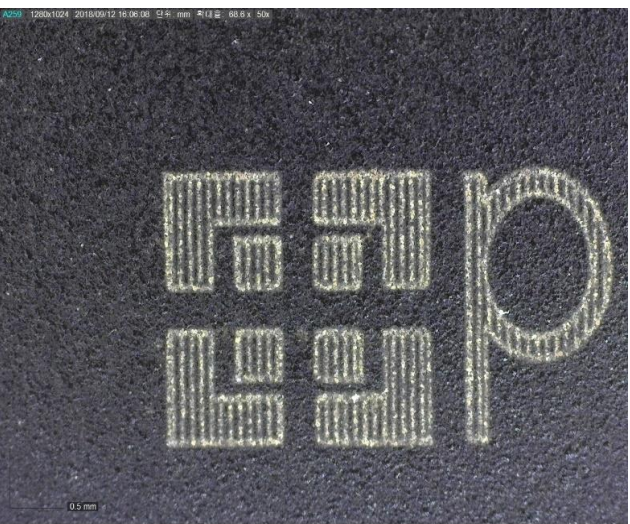
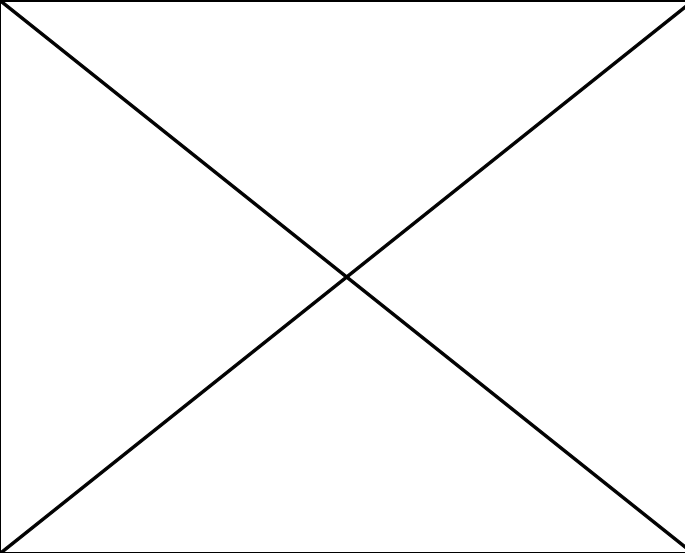
Device's Packaging / Device's Condition	
Test Equipment Model DMC-GF6 Digital Camera , Digital 20X~220X Microscope AM4115ZT , HIROX RH-2000 50X~400X Microscopy	
	
Revision D5- Top View	Revision D5 - Bottom View

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6 Of 21

 Airtech International, Inc. 2 Piermont Road Cresskill, NJ 07626 USA	Parts and Materials Inspection Report			
	Customer Name	ROMEO	Customer P/O	Original Sample -1EA Revision D3 -1EA Revision D5 -1EA
	Part Number	PC203-PBN		
	Manufacturer	PICOCHIP	Qty	3


Device's Packaging / Device's Condition
--

Test Equipment Model DMC-GF6 Digital Camera , Digital 20X~220X Microscope AM4115ZT , HIROX RH-2000 50X~400X Microscopy

	
Original Sample - Manufacturer Logo	Revision D3 - Manufacturer Logo
	
Revision D5 - Manufacturer Logo	

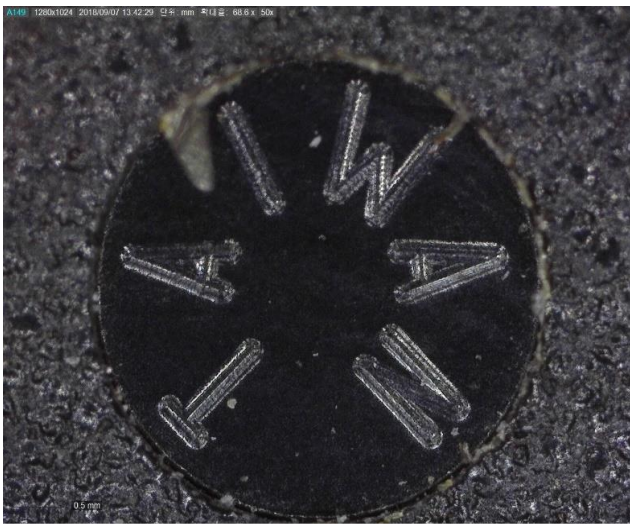
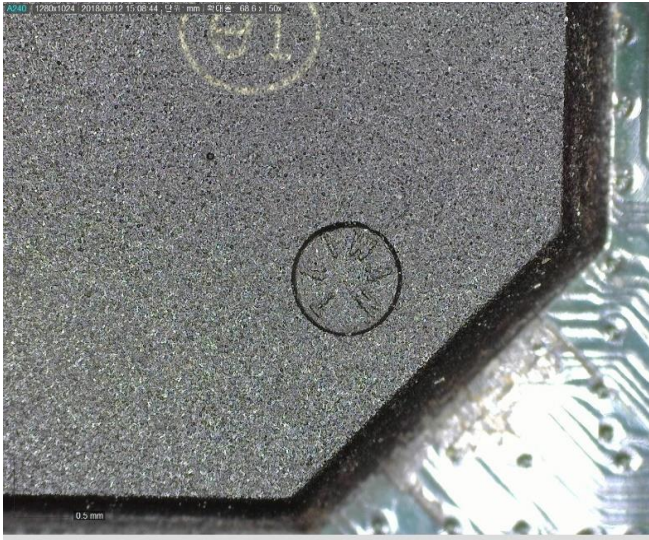
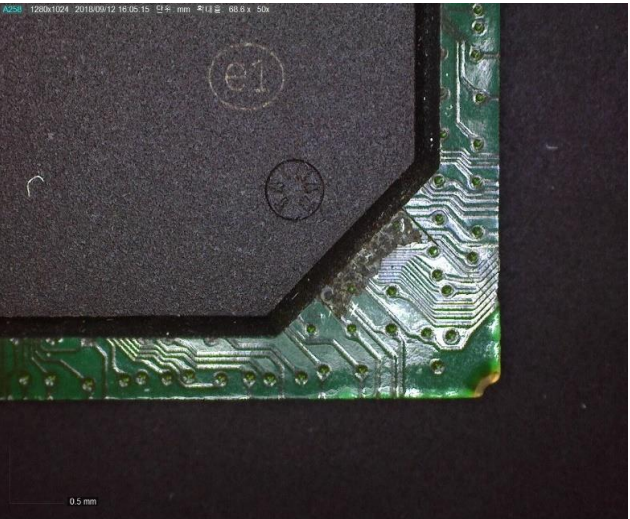
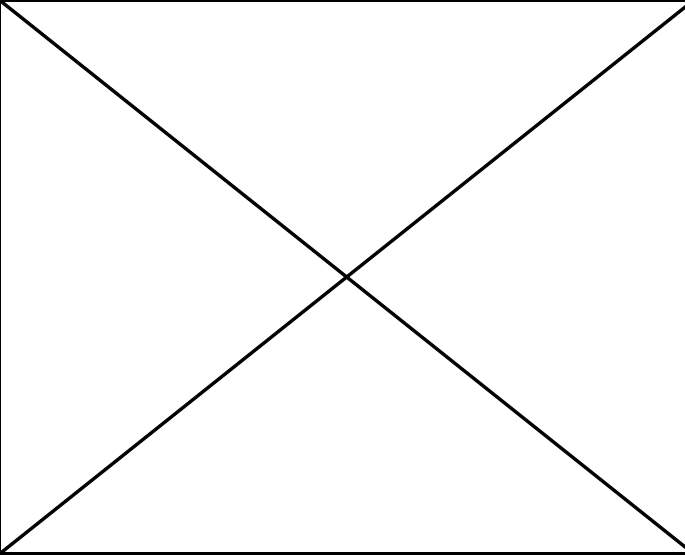
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 Airtech International, Inc. 2 Piermont Road Cresskill ,NJ 07626 USA	Parts and Materials Inspection Report			
	Customer Name	ROMEO	Customer P/O	Original Sample -1EA Revision D3 -1EA Revision D5 -1EA
	Part Number	PC203-PBN		
	Manufacturer	PICOCHIP	Qty	3

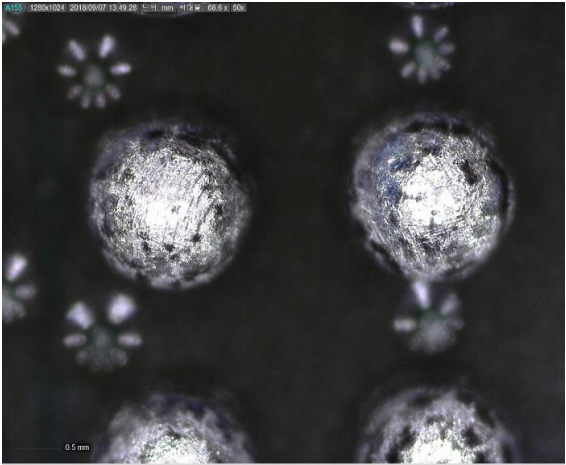
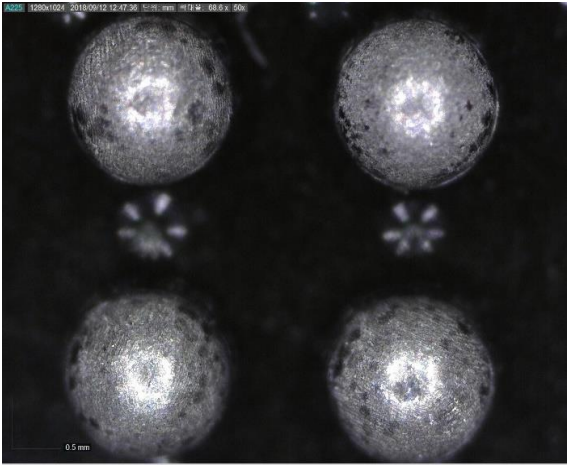
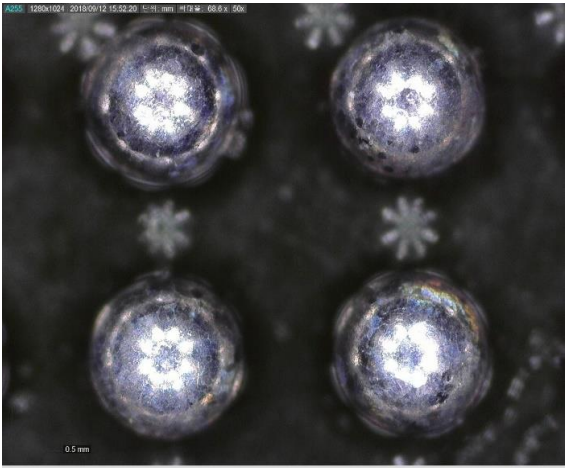
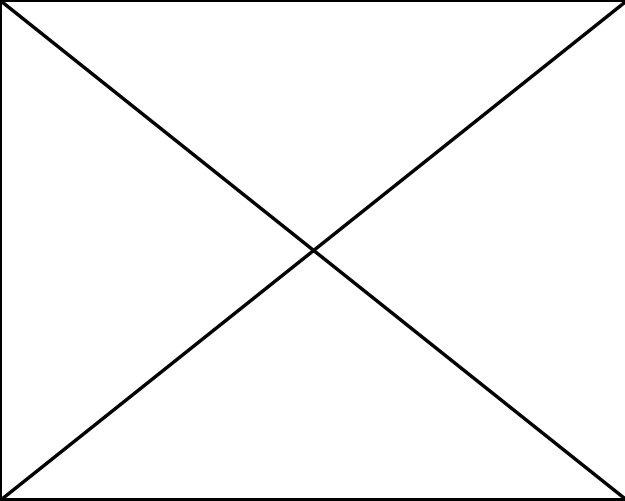
Device's Packaging / Device's Condition

Test Equipment Model DMC-GF6 Digital Camera , Digital 20X~220X Microscope AM4115ZT , HIROX RH-2000 50X~400X Microscopy

	
Original Sample - Country of Origin	Revision D3 - Country of Origin
	
Revision D5 - Country of Origin	

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8 Of 21

 2 Piermont Road Cresskill ,NJ 07626 USA	Parts and Materials Inspection Report			
	Customer Name	ROMEO	Cutomer P/O	Original Sample -1EA
	Part Number	PC203-PBN		Revision D3 -1EA
	Manufacturer	PICOCHIP	Qty	3

External Visual Inspection (Continued)	
Test Equipment Model Digital 20X~220X Microscope AM4115ZT , HIROX RH-2000 50X~400X Microscopy	
	
Original Sample - BGA Balls View	Revision D3 - BGA Balls View
	
Revision D5 - BGA Balls View	Bottom BGA Balls View

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9 Of 21



2 Piermont Road
Cresskill, NJ 07626 USA

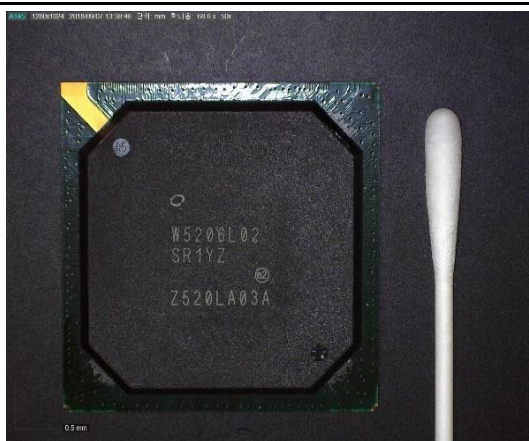
Parts and Materials Inspection Report

Customer Name	ROMEO	Customer P/O	Original Sample -1EA Revision D3 -1EA Revision D5 -1EA
Part Number	PC203-PBN		
Manufacturer	PICOCHIP	Qty	3

Re-Marking/Re-Surfacing Test

Criteria	Sample Qty	Result	Comments
Solvent Test for Marking Permanency (Alcohol)	3	C	

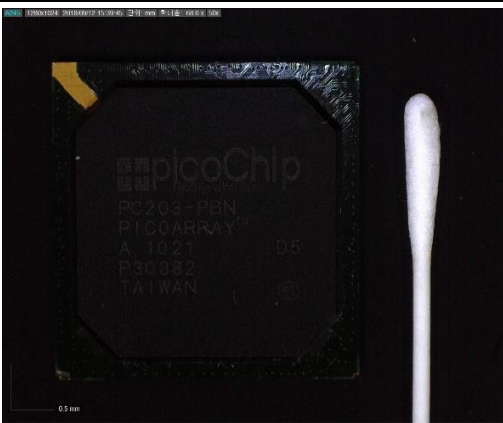
Re-Marking/Re-Surfacing Test Image



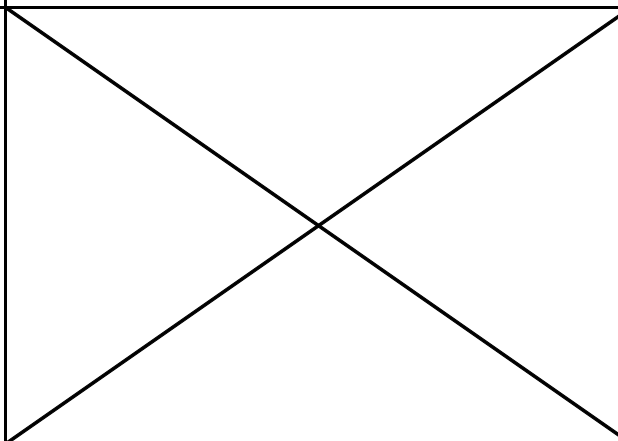
Original Sample - After Solvent Test for Marking Permanency



Revision D3 - After Solvent Test for Marking Permanency



Revision D5 - After Solvent Test for Marking Permanency



Re-Marking/Re-Surfacing TestResult: C: Conforming, NC: Non Conforming, S: Suspect, NA: Not Applicable

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2 Piermont Road
Cresskill, NJ 07626 USA

Parts and Materials Inspection Report

Customer Name

ROMEO

Part Number

PC203-PBN

Manufacturer

PICOCHIP

Customer P/O

Qty

Original Sample -1EA
Revision D3 -1EA
Revision D5 -1EA

3

Re-Marking/Re-Surfacing Test

Criteria

Sample Qty

Result

Comments

Solvent Test for Resurfacing (Acetone)

3

C

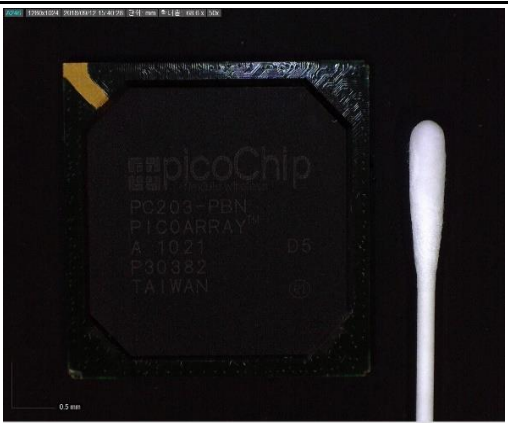
Re-Marking/Re-Surfacing Test Image



Original Sample - After Solvent Test for Resurfacing



Revision D3 - After Solvent Test for Resurfacing



Revision D5 - After Solvent Test for Resurfacing

Re-Marking/Re-Surfacing Test Result: C: Conforming, NC: Non Conforming, S: Suspect, NA: Not Applicable

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Parts and Materials Inspection Report

Customer Name

ROMEO

Customer P/O

Original Sample -1EA
Revision D3 -1EA
Revision D5 -1EA

Part Number

PC203-PBN

Manufacturer

PICOCHIP

Qty

3

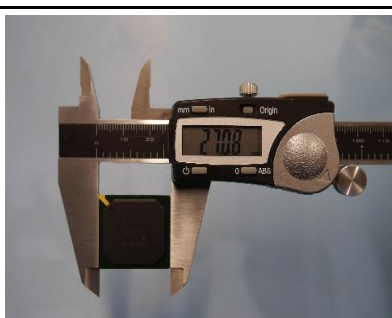
Dimensions Inspection

Test Equipment Model Fowler Digital Caliper 54-100-008-2

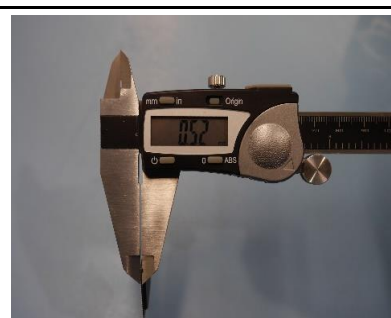
Sample No	Length	Width	Thickness	Comments
Original Sample	27.06 mm	27.08 mm	0.52 mm	Data sheet Dimension - Not Applicable
Revision D3	27.05 mm	27.05 mm	0.50 mm	Data sheet Dimension - Not Applicable
Revision D5	27.05 mm	27.05 mm	0.50 mm	Data sheet Dimension - Not Applicable



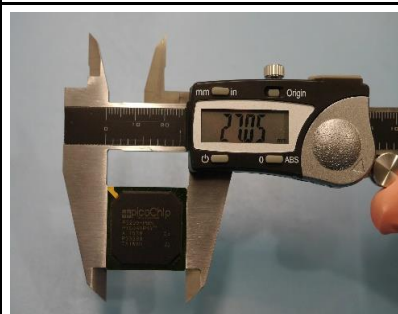
Original Sample- Length



Original Sample- Width



Original Sample-Thickness



Revision D3-Length



Revision D3-Width



Revision D3-Thickness



Revision D5-Length




Revision D5-Width

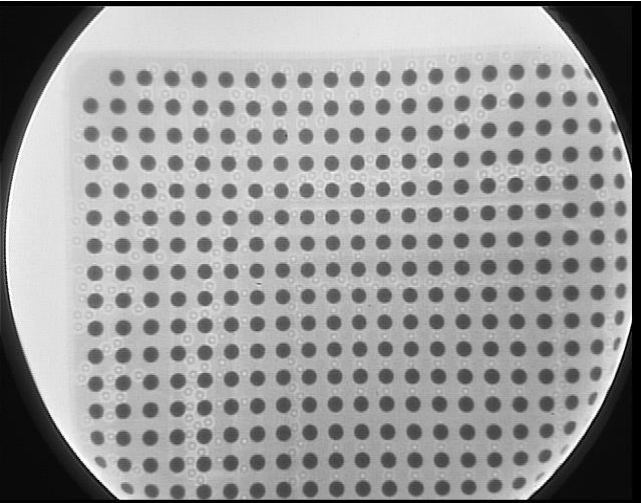
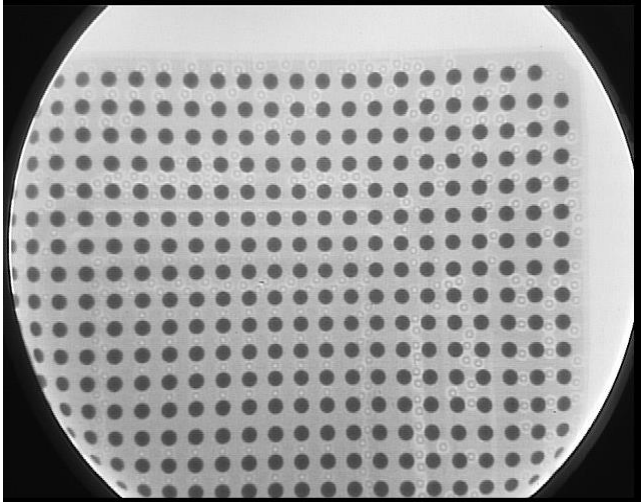
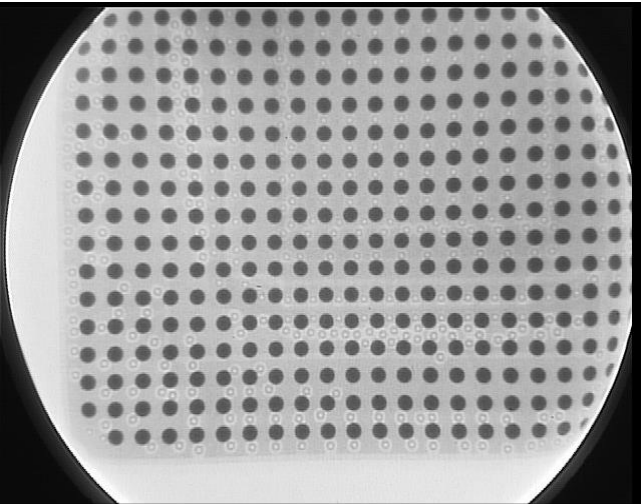
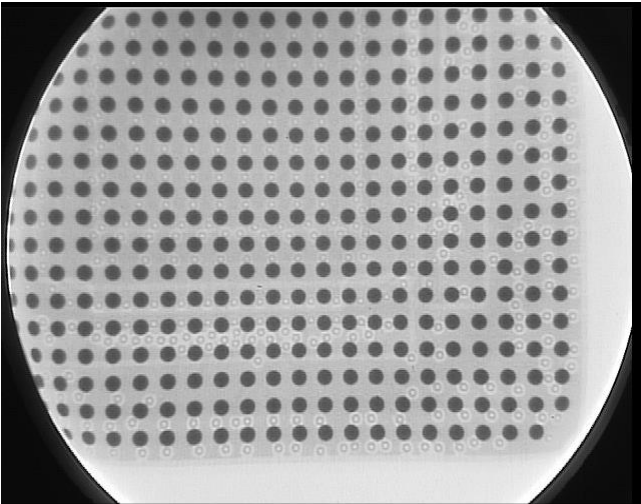


Revision D5-Thickness


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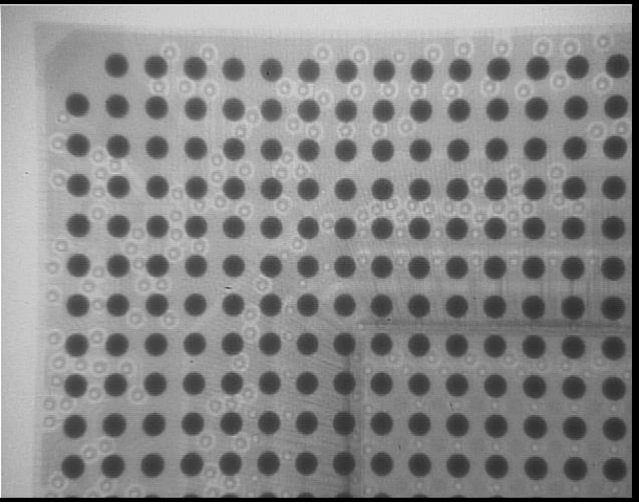
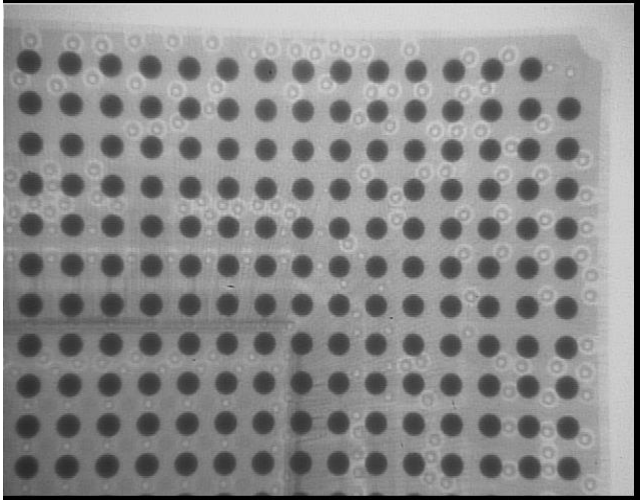
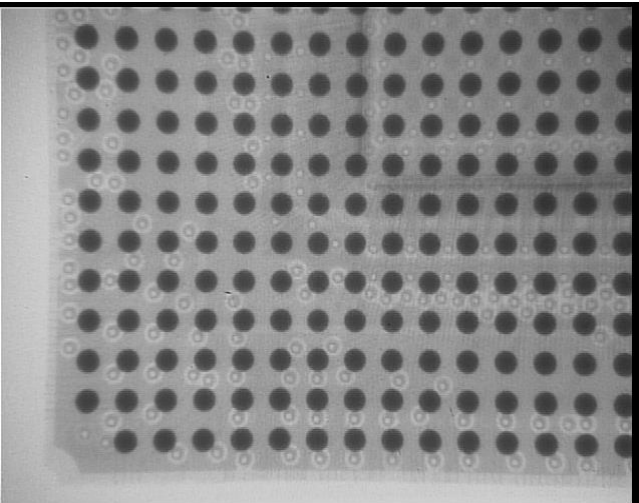
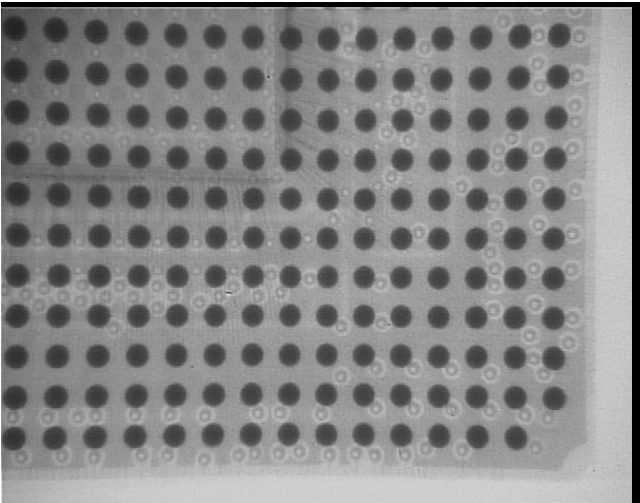
 Airtech International, Inc. 2 Piermont Road Cresskill ,NJ 07626 USA	Parts and Materials Inspection Report			
	Customer Name	ROMEO	Customer P/O	Original Sample -1EA
	Part Number	PC203-PBN		Revision D3 -1EA
	Manufacturer	PICOCHIP	Qty	3

X-Ray Inspection		
Test Equipment Model JEWEL BOX 70T		
Target Voltage	80 kV	
Target Current	0.103 mA	
Operation Use Time	10 (Min)	
Quantity Inspected	1	Original Sample
<div>   </div>		
Original Sample - X-ray image		Original Sample - X-ray image
<div>   </div>		
Original Sample - X-ray image		Original Sample - X-ray image


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13 Of 21

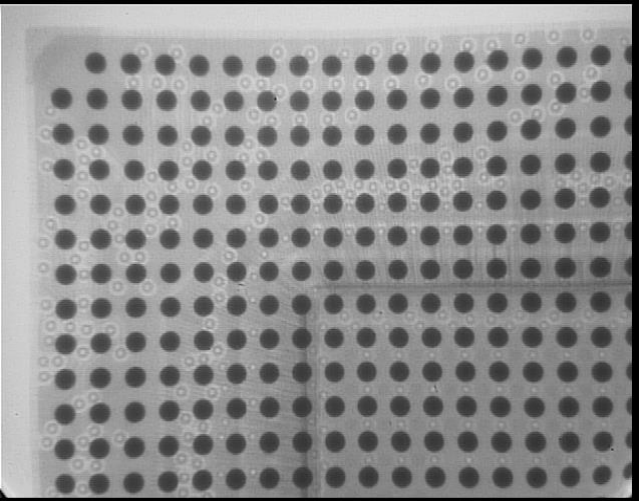
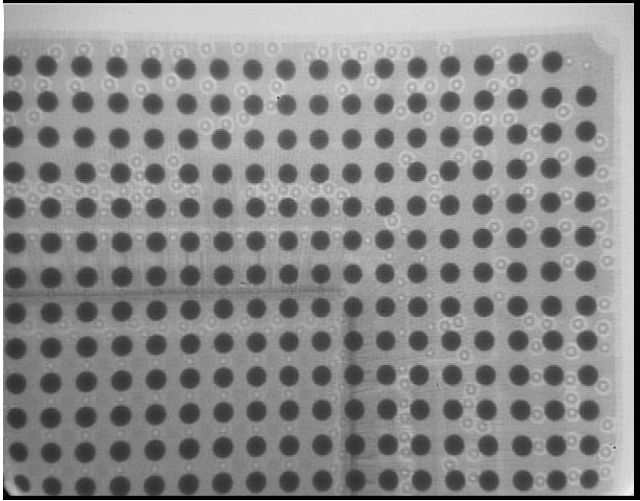
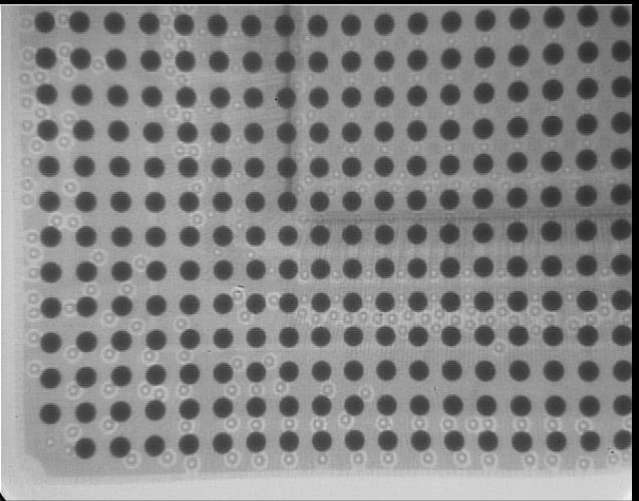
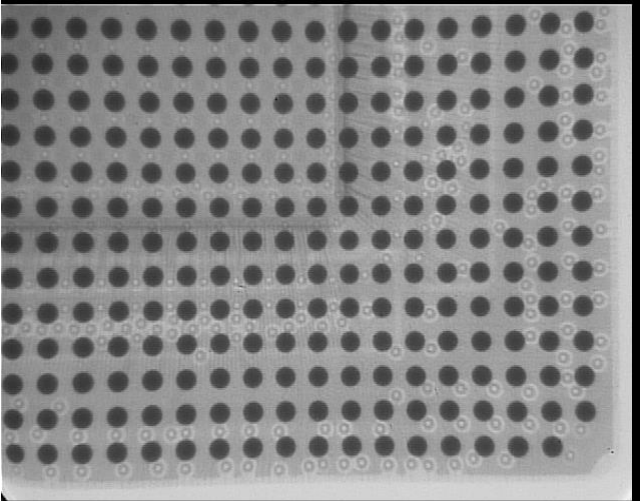
 Airtech International, Inc. 2 Piermont Road Cresskill ,NJ 07626 USA	Parts and Materials Inspection Report			
	Customer Name	ROMEO	Customer P/O	Original Sample -1EA Revision D3 -1EA Revision D5 -1EA
	Part Number	PC203-PBN		
	Manufacturer	PICOCHIP	Qty	3

X-Ray Inspection		
Test Equipment Model JEWEL BOX 70T		
Target Voltage	80 kV	
Target Current	0.103 mA	
Operation Use Time	10 (Min)	
Quantity Inspected	1	Revision D3

	
Revision D3- X-ray image	Revision D3- X-ray image
	
Revision D3- X-ray image	Revision D3- X-ray image

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14 Of 21

 Airtech International, Inc. 2 Piermont Road Cresskill ,NJ 07626 USA	Parts and Materials Inspection Report			
	Customer Name	ROMEO	Customer P/O	Original Sample -1EA
	Part Number	PC203-PBN		Revision D3 -1EA
	Manufacturer	PICOCHIP	Qty	3

X-Ray Inspection		
Test Equipment Model JEWEL BOX 70T		
Target Voltage	80 kV	
Target Current	0.103 mA	
Operation Use Time	10 (Min)	
Quantity Inspected	1	Revision D5
<div>   </div>		
Revision D5 - X-ray image		Revision D5 - X-ray image
<div>   </div>		
Revision D5 - X-ray image		Revision D5 - X-ray image

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15 Of 21

Parts and Materials Inspection Report

Customer Name	ROMEO	Customer P/O	Original Sample -1EA
Part Number	PC203-PBN		Revision D3 -1EA
Manufacturer	PICOCHIP	Qty	3

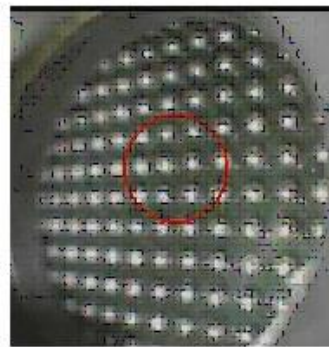
XRF Analysis Inspection

Test Equipment Model Thermo Scientific Niton XL3t 700S

Criteria	Comments	
Withess kV	50 kV	
Operation Use Time	5 (Min)	
Quantity Inspected	1	Original Sample

XL3-101797

Reading No 42
Mode Electronics Metals
Time 2018-10-19 17:59
Duration 34.51
Units ppm
Sigma Value 1
Sequence Final
Allow1 No Match : *7.19
Result Inconclusive : 0.00
Flags No Al-3mm
SAMPLE Original Sample
HEAT
LOT
BATCH
MISC
NOTE



	ppm	+/-	Error
Al	<LOD	:	00000.000
Ba	3797.071	+/-	271.330
Sb	<LOD	:	118.041
Sn	5969.328	+/-	992.091
In	124.123	+/-	58.323
Cd	134.797	+/-	51.875
Pd	<LOD	:	34.620
Ag	1441.225	+/-	121.713
Mo	<LOD	:	181.371
Nb	<LOD	:	92.259
Zr	<LOD	:	38.531
Bi	<LOD	:	382.337
Pb	<LOD	:	146.067
Hg	<LOD	:	160.173
Br	2705.538	+/-	105.218
Se	<LOD	:	90.967
Au	1006.133	+/-	125.390
W	<LOD	:	1.000
Pt	<LOD	:	313.206
Zn	<LOD	:	337.650
Cu	9652.875	+/-	1257.158
Ni	454.122	+/-	159.139
Co	<LOD	:	167.841
Fe	328.393	+/-	149.965
Mn	2711.390	+/-	277.683
Cr	1809.886	+/-	415.826
V	4831.184	+/-	1163.877
Ti	5020.875	+/-	2029.459

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Parts and Materials Inspection Report

Customer Name	ROMEO	Customer P/O	Original Sample -1EA
Part Number	PC203-PBN		Revision D3 -1EA
Manufacturer	PICOCHIP	Qty	3

XRF Analysis Inspection

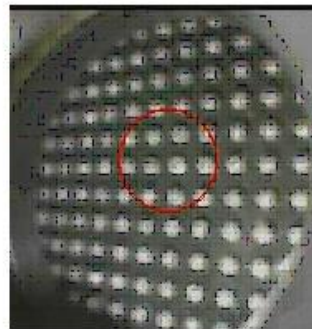
Test Equipment Model Thermo Scientific Niton XL3t 700S

Criteria	Comments	
Withess kV	50 kV	
Operation Use Time	5 (Min)	
Quantity Inspected	1	Revision D3

Certificate of Verification

XL3-101797

Reading No 41
Mode Electronics Metals
Time 2018-10-19 17:54
Duration 35.95
Units ppm
Sigma Value 1
Sequence Final
Alloy1 No Match : >7.19
Result Inconclusive : 0.00
Flags No Al-3mm
SAMPLE Revision D3
HEAT
LOT
BATCH
MISC
NOTE



	ppm	+/-	Error
Al	<LOD	:	00000.000
Ba	3275.518	+/-	229.859
Sb	<LOD	:	133.786
Sn	18590.219	+/-	782.357
In	1715.95	+/-	51.340
Cd	2215.01	+/-	46.435
Pd	<LOD	:	27.978
Ag	2541.084	+/-	120.113
Mo	<LOD	:	114.394
Nb	<LOD	:	80.443
Zr	<LOD	:	36.794
Bi	201.118	+/-	55.235
Pb	3353.05	+/-	57.662
Hg	<LOD	:	138.325
Br	1272.649	+/-	31.665
Se	<LOD	:	74.550
Au	<LOD	:	192.153
W	<LOD	:	1.000
Pt	<LOD	:	279.200
Zn	803.948	+/-	108.901
Cr	15858.438	+/-	1193.074
Ni	356.641	+/-	138.685
Co	<LOD	:	142.698
Fe	<LOD	:	268.373
Mn	2991.955	+/-	247.756
Qr	1303.594	+/-	357.434
V	16039.516	+/-	1029.941
Ti	16027.969	+/-	1772.961

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Parts and Materials Inspection Report

Customer Name	ROMEO	Customer P/O	Original Sample -1EA
Part Number	PC203-PBN		Revision D3 -1EA
Manufacturer	PICOCHIP	Qty	3

XRF Analysis Inspection

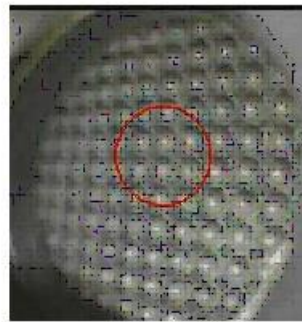
Test Equipment Model Thermo Scientific Niton XL3t 700S

Criteria	Comments	
Withess kV	50 kV	
Operation Use Time	5 (Min)	
Quantity Inspected	1	Revision D5

Certificate of Verification

XL3-101797


Reading No 39
Mode Electronics Metals
Time 2018-10-19 17:46
Duration 35.29
Units ppm
Sigma Value 1
Sequence Final
Alloy1 No Match : *6.97
Result Fail : *1.00
Flags No Al-3mm
SAMPLE Revision D5
HEAT
LOT
BATCH
MISC
NOTE



	ppm	+/-	Error
Al	<LOD	:	00000.000
Ba	2276.007	+/-	227.457
Sb	<LOD	:	102.218
Sn	16735.906	+/-	662.218
In	<LOD	:	128.037
Cd	<LOD	:	85.797
Pd	<LOD	:	29.391
Ag	3696.729	+/-	76.348
Mo	<LOD	:	217.714
Nb	<LOD	:	154.165
Zr	<LOD	:	55.870
Bi	<LOD	:	351.297
Pb	9194.141	+/-	863.854
Hg	<LOD	:	178.664
Br	1207.640	+/-	37.718
Se	271.358	+/-	102.300
Au	<LOD	:	337.414
W	<LOD	:	1.000
Pt	<LOD	:	633.987
Zn	834.001	+/-	112.638
Cu	14262.188	+/-	1318.597
Ni	<LOD	:	286.034
Co	<LOD	:	158.147
Fe	<LOD	:	331.362
Mn	1690.416	+/-	238.430
Cr	1520.507	+/-	376.683
V	18822.959	+/-	1081.197
Ti	19474.078	+/-	1925.058

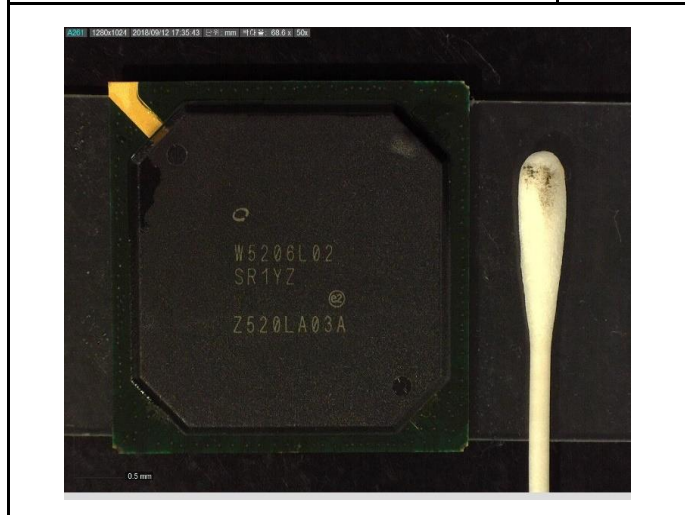
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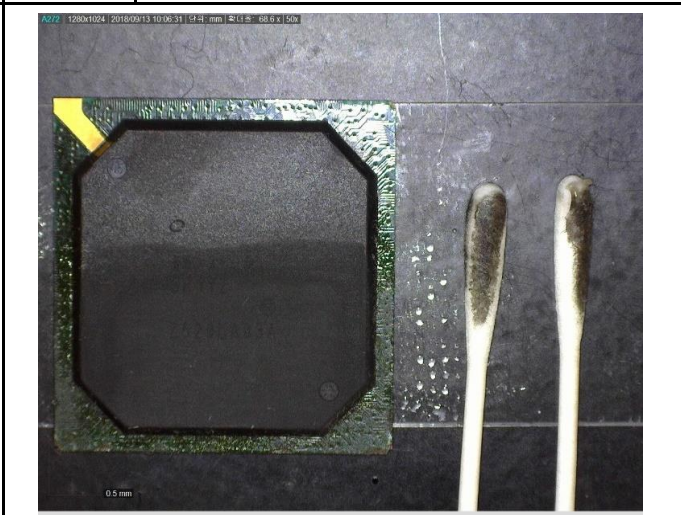
 Airtech International, Inc. 2 Piermont Road Cresskill, NJ 07626 USA	Parts and Materials Inspection Report			
	Customer Name	ROMEO	Customer P/O	Original Sample -1EA
	Part Number	PC203-PBN		Revision D3 -1EA
	Manufacturer	PICOCHIP	Qty	3

Solvent Test / Decapsulation Inspection (Destructive)
--

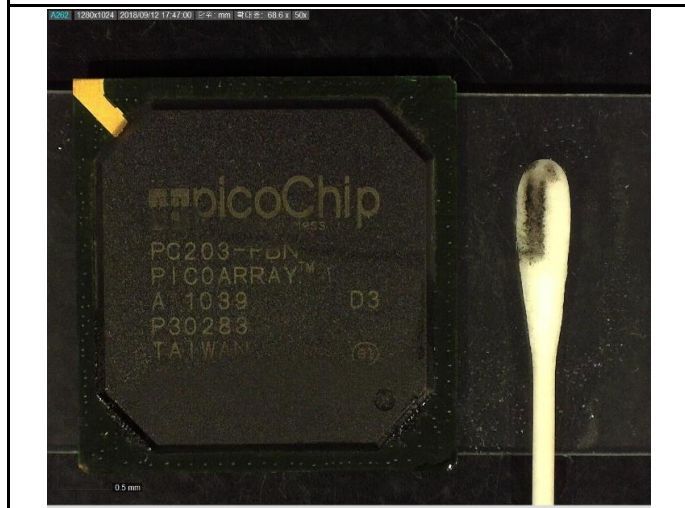
Test Equipment Model Digital Hot Plate MS-H280-Pro for 1-Methyl 2-Pyrrolidinone and dynasolve 750 , NISENE JETTCH PRO (MODEL JEP1000)			
Criteria	Sample Qty	Result	Comments
Hot Plate Solvent Re-Marking/Re-Surfacing Test	3	S	PROCEDURE: 1-Methyl 2-Pyrrolidinone (Suspect : Revision D3)
Hot Plate Solvent Re-Marking/Re-Surfacing Test	3	S	PROCEDURE: Dynasolve 750 (Suspect : Revision D3 , Revision D5)



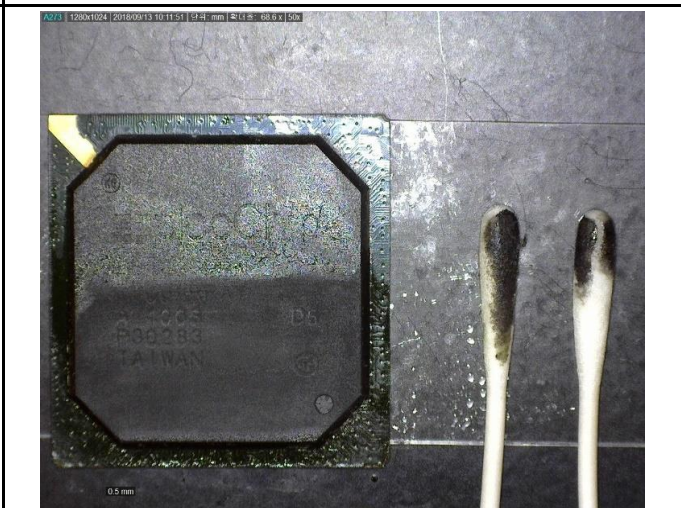
Original Sample - 1-Methyl 2-Pyrrolidinone Solvent Test



Original Sample - Dynasolve 750 Solvent Test



Revision D3 - 1-Methyl 2-Pyrrolidinone Solvent Test
(Repainting , Black Topping)



Revision D3 - Dynasolve 750 Solvent Test
(Repainting , Black Topping , Remarking)

Result: C: Conforming, NC: Non Conforming, S: Suspect, NA: Not Applicable

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<div><div><div>Airtech</div><div>International, Inc.</div><div>2 Piermont Road</div><div>Cresskill, NJ 07626 USA</div></div></div>	Parts and Materials Inspection Report			
	Customer Name	ROMEO	Cutomer P/O	Original Sample -1EA Revision D3 -1EA Revision D5 -1EA
	Part Number	PC203-PBN		
	Manufacturer	PICOCHIP	Qty	3
Solvent Test / Decapsulation Inspection (Destructive)				
Test Equipment Model Digital Hot Plate MS-H280-Pro for 1-Methyl 2-Pyrrolidinone and dynasolve 750 , NISENE JETTCH PRO (MODEL JEP1000)				
Criteria	Sample Qty	Result	Comments	
Hot Plate Solvent Re-Marking/Re-Surfacing Test	3	S	PROCEDURE: 1-Methyl 2-Pyrrolidinone (Suspect : Revision D3)	
Hot Plate Solvent Re-Marking/Re-Surfacing Test	3	S	PROCEDURE: Dynasolve 750 (Suspect : Revision D3 , Revision D5)	
				
Revision D5 - 1-Methyl 2-Pyrrolidinone Solvent Test		Revision D5 - Dynasolve 750 Solvent Test (Repainting , Black Topping)		
Result: C: Conforming, NC: Non Conforming, S: Suspect, NA: Not Applicable				
Disclaimer				
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20 Of 21				

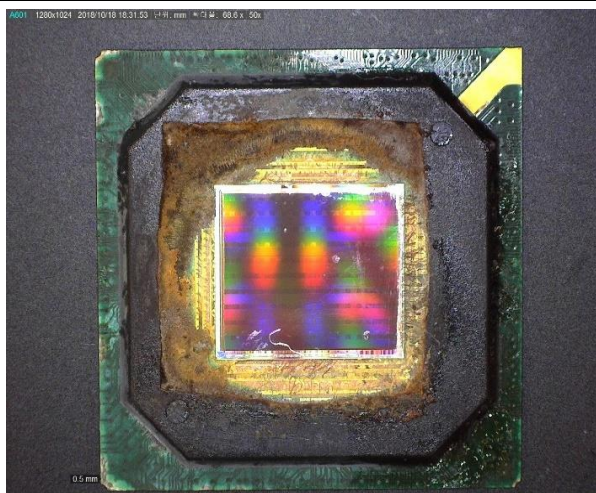
Parts and Materials Inspection Report

Customer Name	ROMEO	Customer P/O	Original Sample -1EA
Part Number	PC203-PBN		Revision D3 -1EA Revision D5 -1EA
Manufacturer	PICOCHIP	Qty	3

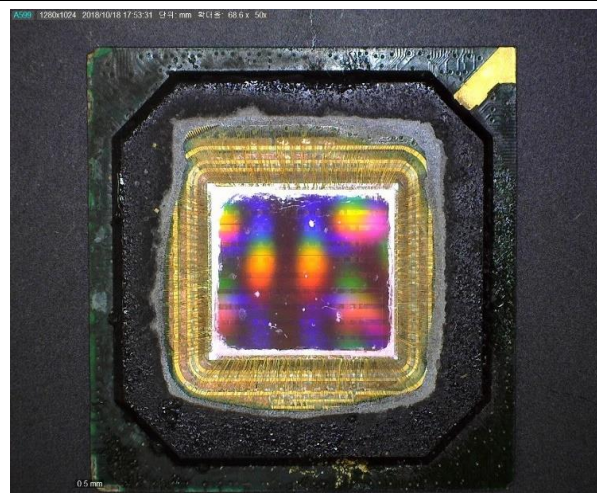
Solvent Test / Decapsulation Inspection (Destructive)

Test Equipment Model Digital Hot Plate MS-H280-Pro for 1-Methyl 2-Pyrrolidinone and dynasolve 750 , NISENE JETTCH PRO (MODEL JEP1000)

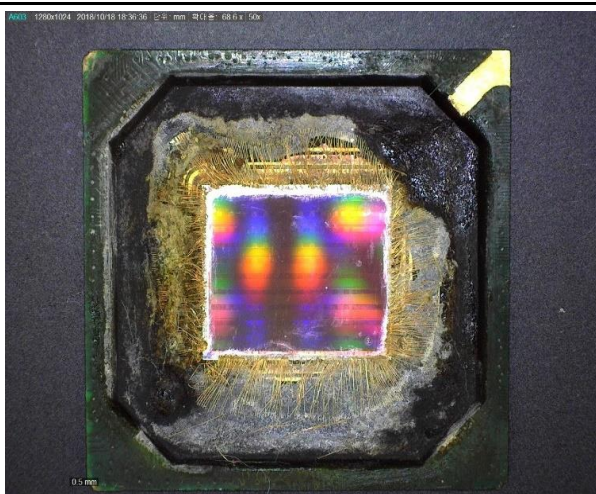
Criteria	Sample Qty	Result	Comments
Decapsulation Inspection	3	N/A	Die Marking Logo, Date Code, Part Number - Not Applicable



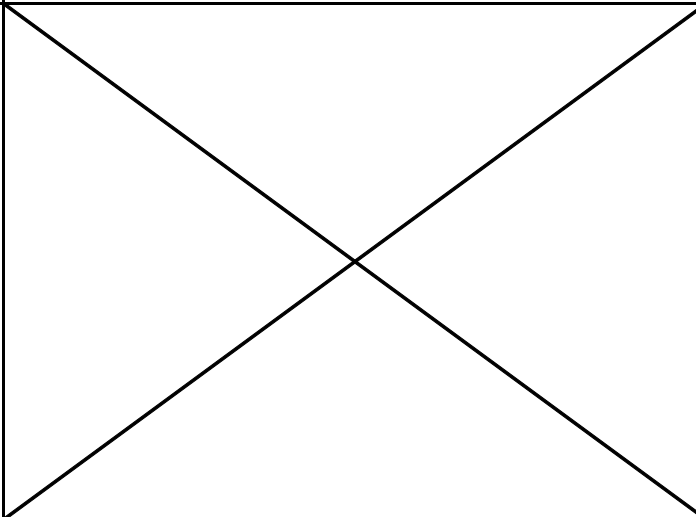
Original Sample (Die Marking Logo, Date Code, Part Number)



Revision D3 (Die Marking Logo, Date Code, Part Number)



Revision D5 (Die Marking Logo, Date Code, Part Number)



Die Marking Logo, Date Code, Part Number - **Not Applicable**

Result: C: Conforming, NC: Non Conforming, S: Suspect, NA: Not Applicable

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