



## Parts and Material Analysis Report

|                  |                                                       |               |                          |
|------------------|-------------------------------------------------------|---------------|--------------------------|
| Customer         | Global Components                                     | Part Number   | TPS54061DRBR             |
| Customer PO      | Q2201040013                                           | Manufacturer  | Texas Instruments        |
| Customer Address | 2479 Rue Gu nette, Montr al, Quebec<br>H4R 2E9 CANADA | Date/Lot Code | 2129/2138                |
| Report Date      | 2/8/2022 2:26:02 PM                                   | Quantity Revd | total: 21000 test: 21000 |
| Revision         | 0                                                     | AAA WO #      | W2201130000              |

### Summary

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

| Test-Process Operation                                                    | Test Quantity | Result  | Comments      |
|---------------------------------------------------------------------------|---------------|---------|---------------|
| <b>General EVI &amp; Handling per AS6081, Section 4.2.6.4.1</b>           |               |         |               |
| Contract Review Items                                                     | 1             | C       |               |
| Box/Content Condition                                                     | 1             | C       |               |
| <b>Detailed Visual Inspection per AS6081, Section 4.2.6.4.2.2</b>         |               |         |               |
| Package Condition                                                         | 60            | C       | Acceptable    |
| Lead Condition                                                            | 60            | C       | Acceptable    |
| Part Markings                                                             | 60            | C       | Acceptable    |
| <b>Inspection for Remarking/Resurfacing per AS6081, Section 4.2.6.4.3</b> |               |         |               |
| 3:1 Marking Permanency                                                    | 2             | C       | Pass          |
| Acetone Swab Test                                                         | 2             | C       | Pass          |
| HCT-1 (1-Methyl, 2-Pyrrolidinone)                                         | 2             | C       | Pass          |
| HCT-2                                                                     | 2             | C       | Pass          |
| <b>XRF Evaluation per AS6081, Section 4.2.6.4.5</b>                       |               |         |               |
| Lead Finish                                                               | 3             | C       | Cu/Ni plating |
| <b>Internal Visual Inspection per AS6081, Section 4.2.6.4.6</b>           |               |         |               |
| Observed Defects                                                          | 2             | C       | None          |
| <b>Radiological Inspection per AS6081, Section 4.2.6.4.4</b>              |               |         |               |
| Internal Construction                                                     | 10            | C       | Pass          |
| <b>Electrical Testing per AAA 622-001 Section 13</b>                      |               |         |               |
| Pin Correlation                                                           | 60            | 60 pcs. | 100% Pass     |

### Assessment

**Parts passed electrical testing.**



## Analysis Summary

### External Visual Inspection

External Visual Inspection on 60 samples marked with D/C: 2138 revealed legible device markings consistent with the lot traveler and published data related to the part. No secondary coating, sanding marks, cracks, or chips were observed on all devices inspected. Leads were in acceptable condition.

Device package characteristics and dimensions matched manufacturer's specification.

No records of suspect counterfeit parts were found for this part number in the ERAI/GIDEP data bases.

NOTE: All inspections in this section performed in accordance with AAA Test Procedure Manual, 622-001, Sections 1-3; microscope magnification = 10X to 30X unless otherwise noted.

### Internal Visual Inspection

Internal Visual Inspection on 2 samples marked with D/C: 21+ revealed Manufacturer TI marking with 2011 copyright year and die marking TPS54061 and PG1P0. Device confirmed to be a Texas Instruments die.

Die markings consistent with information in the AAA die bank data base for this part number.

Testing performed in accordance with AAA Test Procedure Manual, 622-001, Section 4

### Electrical Test

Parts tested: 60

Parts Passed: 60

Test notes: 60 devices passed all tested parameters. Device pins correlated to the manufacturer's specification.

D/C Tested: 2138

### X-Ray Inspection

Radioscopic (X-ray) analysis of 10 random sample(s) revealed the same internal structure on all the samples. No internal damages were observed during inspection.

Radioscopic inspection performed in accordance with AAA Test Procedure Manual, 622-001, Section 7

Represented images are typical. All images are available on request.

Equipment: Creative Electron Tru-View Prime X-Ray, Calibration due 10/28/22)

### XRF Analysis

XRF Analysis performed on 3 random sample(s) revealed the elemental composition of the device(s), as shown in the table below.

| Reading | Fe % | Ni %  | Cu %  | Ag % | W %  | Au % | Sn % | Pb % |
|---------|------|-------|-------|------|------|------|------|------|
| 1       | 1.72 | 14.64 | 82.17 | 0.00 | 0.00 | 1.23 | 0.24 | 0.00 |
| 2       | 1.77 | 14.02 | 82.84 | 0.02 | 0.00 | 1.13 | 0.23 | 0.00 |
| 3       | 1.78 | 13.65 | 83.02 | 0.02 | 0.00 | 1.34 | 0.20 | 0.00 |

| Statistics | Fe % | Ni % | Cu % | Ag % | W % | Au % | Sn % | Pb % |
|------------|------|------|------|------|-----|------|------|------|
|            |      |      |      |      |     |      |      |      |



|         |     |      |      |     |     |     |     |     |
|---------|-----|------|------|-----|-----|-----|-----|-----|
| Mean    | 1.8 | 14.1 | 82.7 | 0.0 | 0.0 | 1.2 | 0.2 | 0.0 |
| Minimum | 1.7 | 13.6 | 82.2 | 0.0 | 0.0 | 1.1 | 0.2 | 0.0 |
| Maximum | 1.8 | 14.6 | 83.0 | 0.0 | 0.0 | 1.3 | 0.2 | 0.0 |
| Std Dev | 0.0 | 0.5  | 0.4  | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 |

XRF spectrometer analyzers do not conclusively measure the elemental composition of any samples but do measure the % of each element relative to the others being measured. No comparison to actual manufacturer composition declarations should be made or implied.

XRF testing performed in accordance with AAA Test Procedure Manual, 622-001, Section 8

### Solvent Test

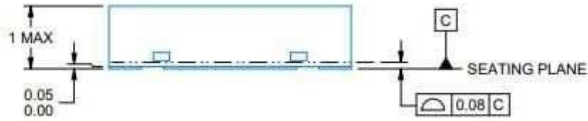
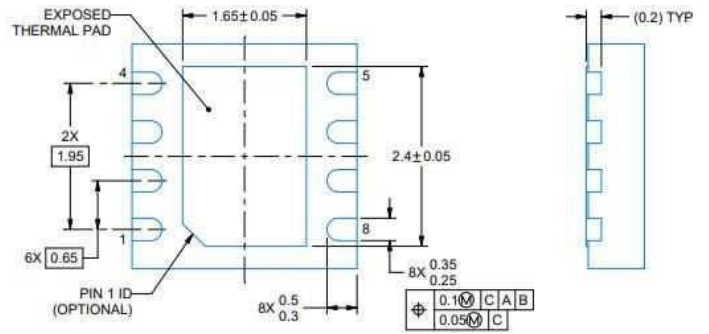
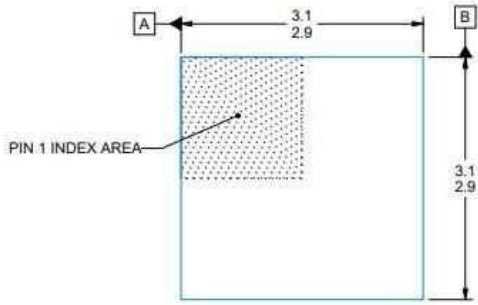
Marking Permanency Test results were negative - no markings were removed.  
 Acetone Test results for resurfacing were negative - no residue was deposited on the swab.  
 HCT-1 Test results for resurfacing were negative - no residue was deposited on the swab.  
 HCT-2 Test results for resurfacing were positive - minor residue was deposited on the swab. No sanding or previous markings revealed.

Note: D/C 2129(Left), D/C 2138(Right); HCT-1: 1-Methyl 2-Pyrrolidinone; HCT-2: Dynasolve 711

Testing performed in accordance with AAA Test Procedure Manual, 622-001, Section 5

### Device Description

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Device    | <p><b>Buck Switching Regulator IC Positive Adjustable 0.8V 1 Output 200mA 8-VDFN Exposed Pad</b></p> <p><b>Function</b> Step-Down<br/> <b>Output Configuration</b> Positive<br/> <b>Topology</b> Buck<br/> <b>Output Type</b> Adjustable<br/> <b>Number of Outputs</b> 1<br/> <b>Voltage - Input</b> 4.7V - 60V<br/> <b>Voltage - Output (Min/Fixed)</b> 0.8V - (Max) 58V<br/> <b>Current - Output</b> 200mA<br/> <b>Frequency - Switching</b> 50kHz ~ 1.1MHz<br/> <b>Synchronous Rectifier</b> Yes<br/> <b>Operating Temperature</b> -40°C ~ 150°C (TJ)<br/> <b>Package / Case</b> 8-VDFN Exposed Pad (3x3)<br/> <b>RoHS Status</b> ROHS3 Compliant<br/> <b>Moisture Sensitivity Level (MSL)</b> 2 (1 Year)<br/> <b>ECCN</b> EAR99<br/> <b>HTSUS</b> 8542.39.0001</p> |
| Case      | 8-Pin VDFN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| PDF       | <a href="https://www.ti.com/lit/ds/symlink/tps54061.pdf?HQS=dis-dk-null-digikeymode-dsf-pf-null-ww&amp;ts=1637004931420&amp;ref_url=https%253A%252F%252Fwww.ti.com%252Fgeneral%252Fdocs%252Fsuppproductinfo.tsp%253FdistId%253D10%2526gotoUrl%253Dhttps%253A%252F%252Fwww.ti.co">https://www.ti.com/lit/ds/symlink/tps54061.pdf?HQS=dis-dk-null-digikeymode-dsf-pf-null-ww&amp;ts=1637004931420&amp;ref_url=https%253A%252F%252Fwww.ti.com%252Fgeneral%252Fdocs%252Fsuppproductinfo.tsp%253FdistId%253D10%2526gotoUrl%253Dhttps%253A%252F%252Fwww.ti.co</a>                                                                                                                                                                                                            |
| Datasheet | REVISED NOVEMBER 2015                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |





## Receiving - Documentation and Package Inspection

General EVI & Handling per AS6081, Section 4.2.6.4.1

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

|                             |                                      |                        |           |
|-----------------------------|--------------------------------------|------------------------|-----------|
| <b>Date:</b>                | 1/13/2022 8:55:26 AM                 | <b>Tech:</b>           | Tyler     |
| <b>Device Count:</b>        | 21000                                | <b>Date/Lot Code:</b>  | 2129/2138 |
| <b>Weight:</b>              | 10.0000 lbs                          | <b>ESD Protection:</b> | Present   |
| <b>Moisture Protection:</b> | Present WITH Indicator and Desiccant | <b>Carrier Type:</b>   | Reel      |

| Criteria                                                                                                                                                                                           | Result | Comments |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----------|
| <b>Receiving - Documentation and Package Inspection</b>                                                                                                                                            |        |          |
| Lot/Date Code information consistent with published data                                                                                                                                           | NA     |          |
| Manufacturer label/logo are present and matches datasheet and prev orders                                                                                                                          | NA     |          |
| Documentation review                                                                                                                                                                               | C      |          |
| Barcode data scans and matches                                                                                                                                                                     | NA     |          |
| Consistent package materials                                                                                                                                                                       | NA     |          |
| <b>General Visual Inspection</b>                                                                                                                                                                   |        |          |
| Parts received in a single shipment                                                                                                                                                                | C      |          |
| Consistent part markings throughout lot                                                                                                                                                            | C      |          |
| Consistent appearance                                                                                                                                                                              | C      |          |
| Consistent handling, packaging and storage                                                                                                                                                         | NA     |          |
| No evidence parts have been separated                                                                                                                                                              | NA     |          |
| Box received in acceptable condition.<br>ESD bag contained HIC and Desiccant.<br>Devices were received in acceptable condition.<br>Part markings were consistent throughout the samples inspected. |        |          |



**Incoming Box**



**Package Condition**



### Receiving Inspection ( Continued )



Sample ESD Protection



Sample Bag Label 1



Sample Bag Label 2



Sample Package Type



Sample Reel 1 Label



Sample Reel 2 Label

### Receiving Inspection ( Continued )



Sample Reel 1 Received with 3000 Devices



Sample Reel 2 Received with 3000 Devices



Device Orientation



## Detailed External Visual Inspection

### Detailed Visual Inspection per AS6081, Section 4.2.6.4.2.2

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

| Criteria                  | Sample Size | Result | Comments   |
|---------------------------|-------------|--------|------------|
| <b>General Conditions</b> |             |        |            |
| Pin/Lead Count            | 60          | C      | 8          |
| Package Type              | 60          | C      | VSON       |
| Verify Pin 1 placement    | 60          | C      | Acceptable |
| Part Markings             | 60          | C      | Acceptable |
| Package Conditions        | 60          | C      | Acceptable |
| Mold Cavities             | 60          | NA     |            |
| Plating                   | 60          | C      | Acceptable |
| Lead/Ball Conditions      | 60          | C      | Acceptable |
| Dimensions                | 60          | C      | Acceptable |
| GIDEP Verification        | 60          | C      |            |
| ERAI Verification         | 60          | C      |            |

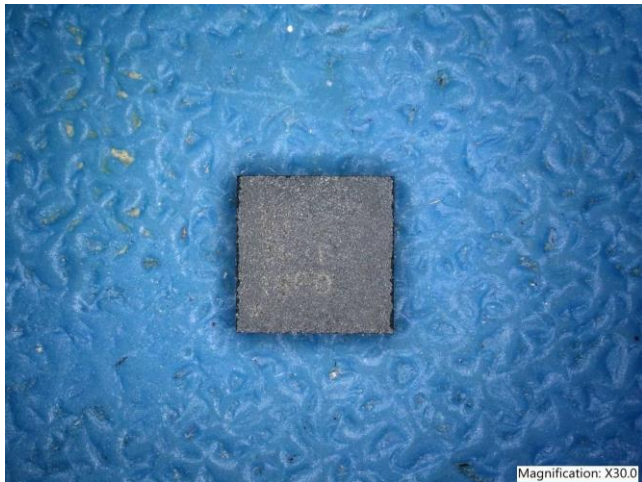
External Visual Inspection on 60 samples marked with D/C: 2138 revealed legible device markings consistent with the lot traveler and published data related to the part. No secondary coating, sanding marks, cracks, or chips were observed on all devices inspected. Leads were in acceptable condition.

Device package characteristics and dimensions matched manufacturer's specification.

No records of suspect counterfeit parts were found for this part number in the ERAI/GIDEP data bases.

**NOTE:** All inspections in this section performed in accordance with AAA Test Procedure Manual, 622-001, Sections 1-3; microscope magnification = 10X to 30X unless otherwise noted.

|                |          |
|----------------|----------|
| Test Operator: | J Bank   |
| Test Date:     | 2/8/2022 |



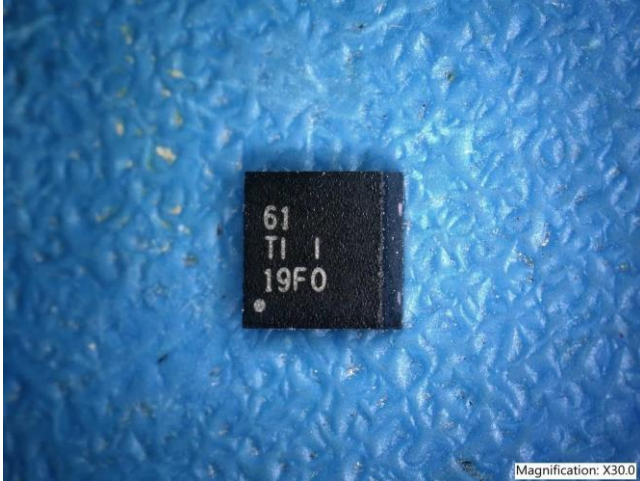
Top



Bottom



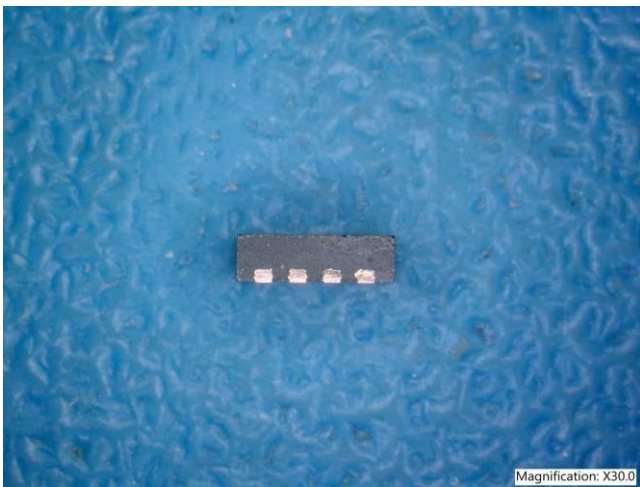
### Detailed External Visual Inspection ( Continued )



**Top Markings**



**Side view 1**



**Side view 2**



**Length 2.9 to 3.1**



**Width 2.9 to 3.1**



**Thickness 1 Max**

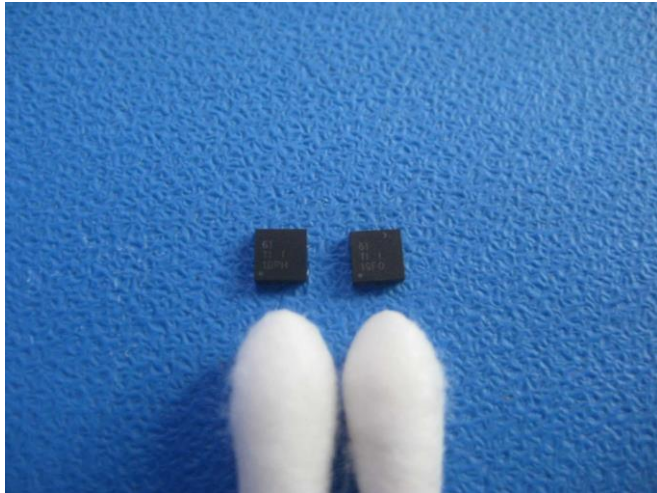


## Solvent/Chemical Testing

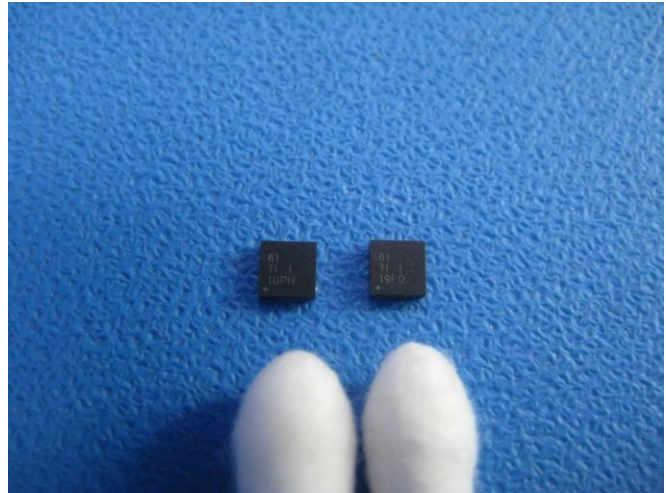
### Inspection for Remarketing/Resurfacing per AS6081, Section 4.2.6.4.3

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

| Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Sample Size | Result | Comments |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------|----------|
| Marking Permanency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2           | C      | Pass     |
| Acetone Swab Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2           | C      | Pass     |
| HCT-1 (1-Methyl, 2-Pyrrolidione)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2           | C      | Pass     |
| HCT-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2           | C      | Pass     |
| Marking Permanency Test results were negative - no markings were removed.<br>Acetone Test results for resurfacing were negative - no residue was deposited on the swab.<br>HCT-1 Test results for resurfacing were negative - no residue was deposited on the swab.<br>HCT-2 Test results for resurfacing were positive - minor residue was deposited on the swab. No sanding or previous markings revealed.<br><br>Note: D/C 2129(Left), D/C 2138(Right); HCT-1: 1-Methyl 2-Pyrrolidinone; HCT-2: Dynasolve 711<br><br>Testing performed in accordance with AAA Test Procedure Manual, 622-001, Section 5 |             |        |          |
| Test Operator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | J Bank      |        |          |
| Test Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2/8/2022    |        |          |



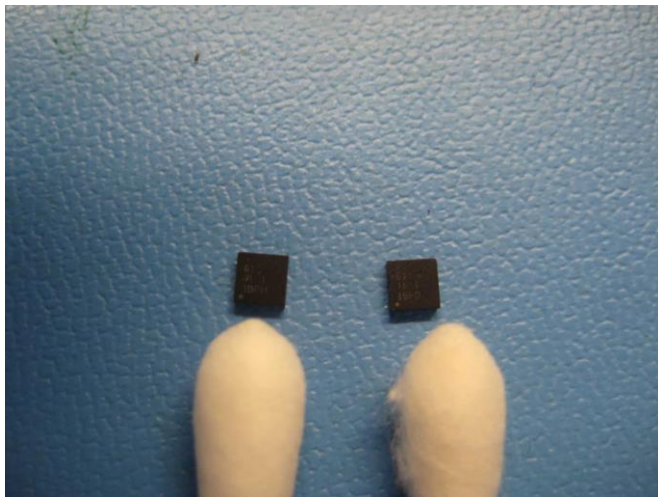
**After Permanency**



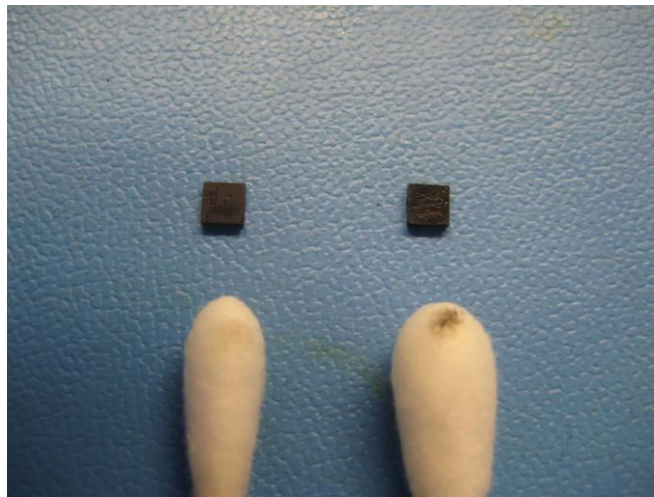
**After Acetone**



### Solvent/Chemical Testing ( Continued )



After HCT-1



After HCT-2



HCT-2 Close up



## XRF Analysis

### XRF Evaluation per AS6081, Section 4.2.6.4.5

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

| Criteria                                                                                                                                                                                                                                                             | Sample Size | Result | Comments      |      |      |      |      |      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------|---------------|------|------|------|------|------|
| <b>Consistent Lead Finish &amp; Material Composition</b>                                                                                                                                                                                                             | 3           | C      | Cu/Ni plating |      |      |      |      |      |
| XRF Analysis performed on 3 random sample(s) revealed the elemental composition of the device(s), as shown in the table below.                                                                                                                                       |             |        |               |      |      |      |      |      |
| Reading                                                                                                                                                                                                                                                              | Fe %        | Ni %   | Cu %          | Ag % | W %  | Au % | Sn % | Pb % |
| 1                                                                                                                                                                                                                                                                    | 1.72        | 14.64  | 82.17         | 0.00 | 0.00 | 1.23 | 0.24 | 0.00 |
| 2                                                                                                                                                                                                                                                                    | 1.77        | 14.02  | 82.84         | 0.02 | 0.00 | 1.13 | 0.23 | 0.00 |
| 3                                                                                                                                                                                                                                                                    | 1.78        | 13.65  | 83.02         | 0.02 | 0.00 | 1.34 | 0.20 | 0.00 |
| Statistics                                                                                                                                                                                                                                                           | Fe %        | Ni %   | Cu %          | Ag % | W %  | Au % | Sn % | Pb % |
| Mean                                                                                                                                                                                                                                                                 | 1.8         | 14.1   | 82.7          | 0.0  | 0.0  | 1.2  | 0.2  | 0.0  |
| Minimum                                                                                                                                                                                                                                                              | 1.7         | 13.6   | 82.2          | 0.0  | 0.0  | 1.1  | 0.2  | 0.0  |
| Maximum                                                                                                                                                                                                                                                              | 1.8         | 14.6   | 83.0          | 0.0  | 0.0  | 1.3  | 0.2  | 0.0  |
| Std Dev                                                                                                                                                                                                                                                              | 0.0         | 0.5    | 0.4           | 0.0  | 0.0  | 0.1  | 0.0  | 0.0  |
| XRF spectrometer analyzers do not conclusively measure the elemental composition of any samples but do measure the % of each element relative to the others being measured. No comparison to actual manufacturer composition declarations should be made or implied. |             |        |               |      |      |      |      |      |
| XRF testing performed in accordance with AAA Test Procedure Manual, 622-001, Section 8                                                                                                                                                                               |             |        |               |      |      |      |      |      |
| <b>Test Operator</b>                                                                                                                                                                                                                                                 |             |        | K O'Neil      |      |      |      |      |      |
| <b>Test Date</b>                                                                                                                                                                                                                                                     |             |        | 2/8/2022      |      |      |      |      |      |



### XRF Analysis ( Continued )

**AAA Test Lab**  
2320 Commerce Park Dr NE, Palm  
Bay, FL 32905



**AAA Test Lab Inc.**  
ISO/IEC 17025:2005 Accredited

Bowman P Series XRF

Operator Initials: KO  
Workorder: W2201130000  
Customer: Global Medical  
Part Number: Components  
TPSS4061DRBR

Read Time (s): 30  
Session Date: 2/8/2022 8:25  
Collimator: 4mil

| Reading | Fe % | Ni %  | Cu %  | Ag % | W %  | Au % | Sn % | Pb % |
|---------|------|-------|-------|------|------|------|------|------|
| 1       | 1.72 | 14.64 | 82.17 | 0.00 | 0.00 | 1.23 | 0.24 | 0.00 |
| 2       | 1.77 | 14.02 | 82.84 | 0.02 | 0.00 | 1.13 | 0.23 | 0.00 |
| 3       | 1.78 | 13.65 | 83.02 | 0.02 | 0.00 | 1.34 | 0.20 | 0.00 |

| Statistics | Fe % | Ni % | Cu % | Ag % | W % | Au % | Sn % | Pb % |
|------------|------|------|------|------|-----|------|------|------|
| Mean       | 1.8  | 14.1 | 82.7 | 0.0  | 0.0 | 1.2  | 0.2  | 0.0  |
| Minimum    | 1.7  | 13.6 | 82.2 | 0.0  | 0.0 | 1.1  | 0.2  | 0.0  |
| Maximum    | 1.8  | 14.6 | 83.0 | 0.0  | 0.0 | 1.3  | 0.2  | 0.0  |
| Std Dev    | 0.0  | 0.5  | 0.4  | 0.0  | 0.0 | 0.1  | 0.0  | 0.0  |



Result 1



Result 2

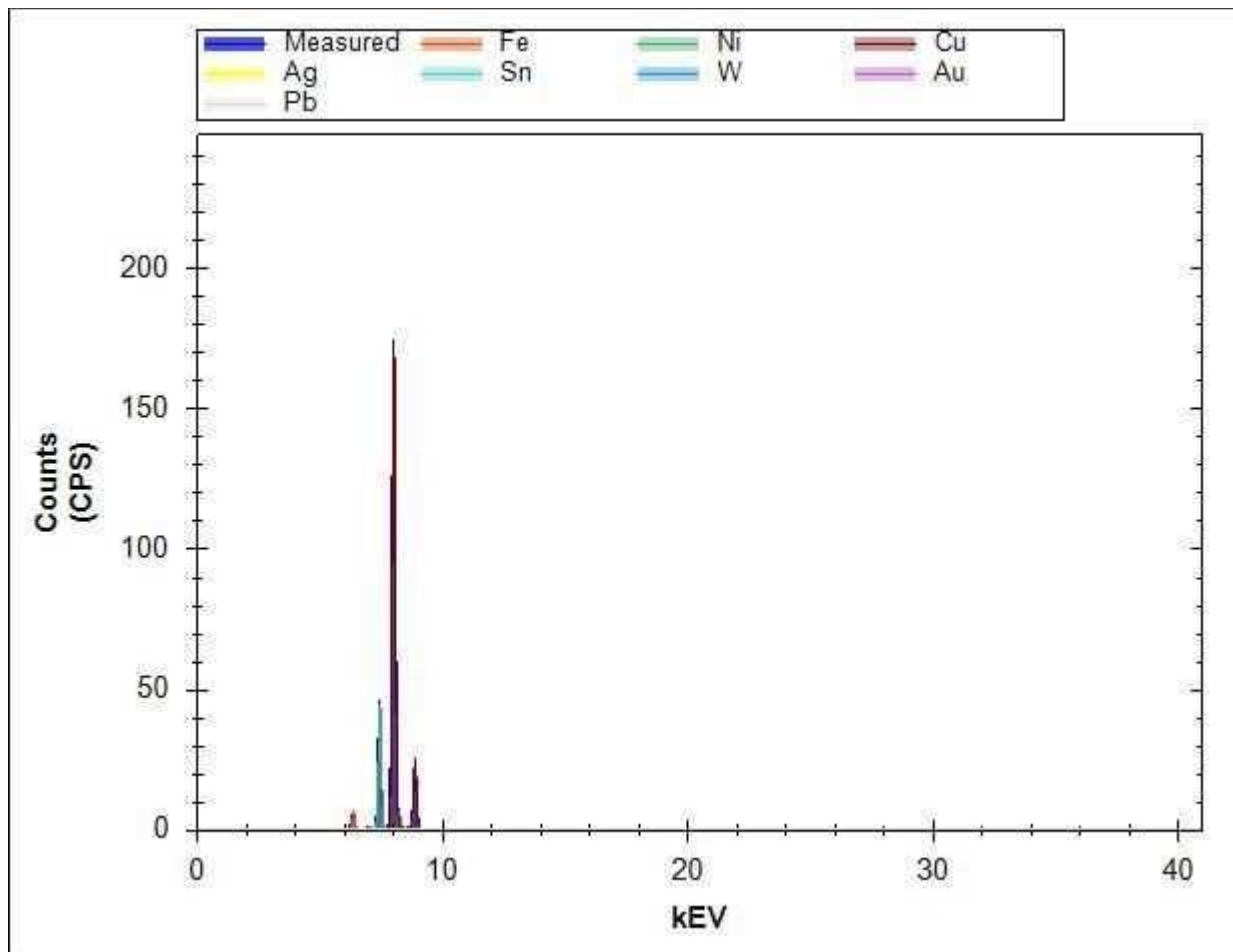


Result 3

### XRF Results



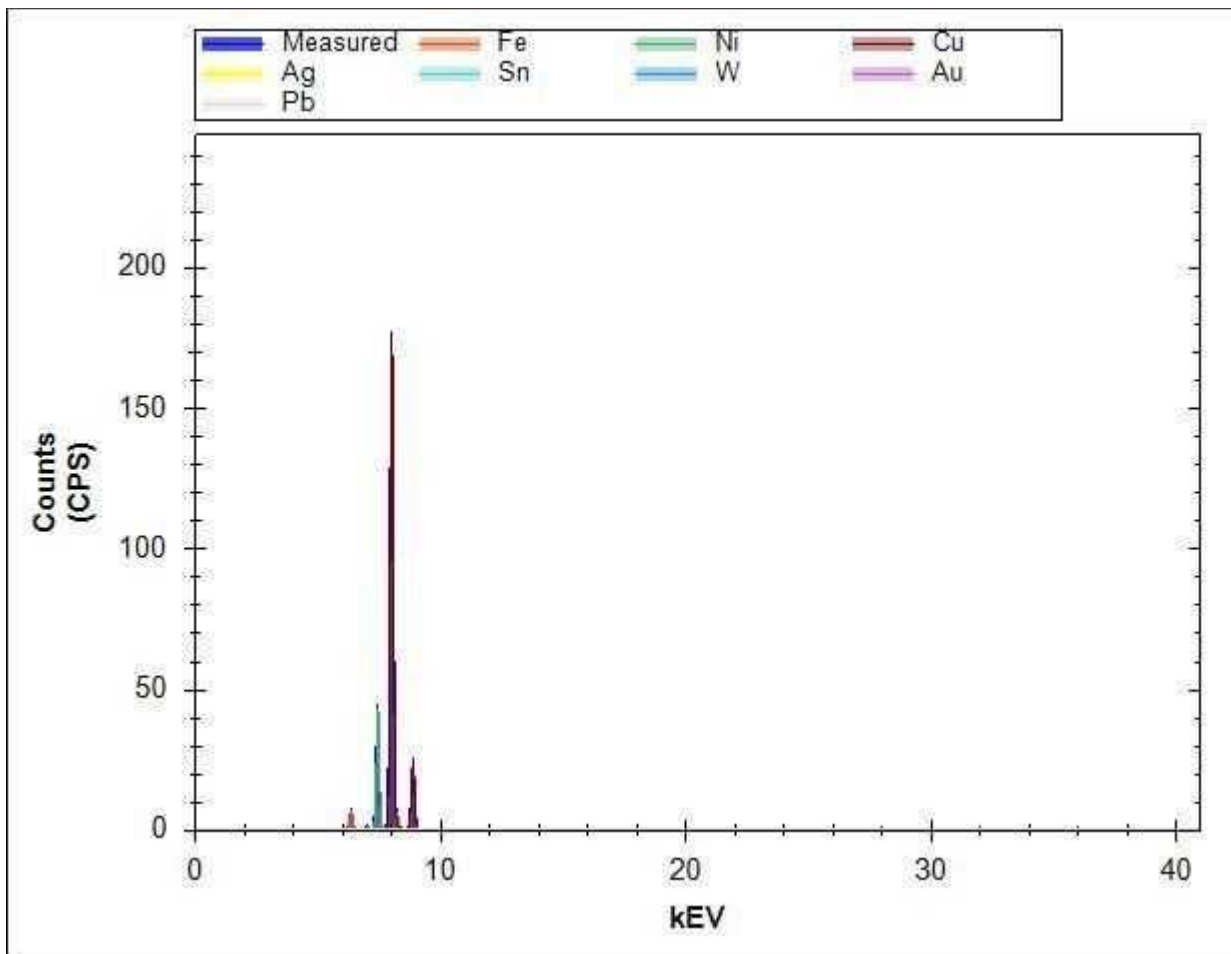
### XRF Analysis ( Continued )



XRF Spectrum - Sample 1



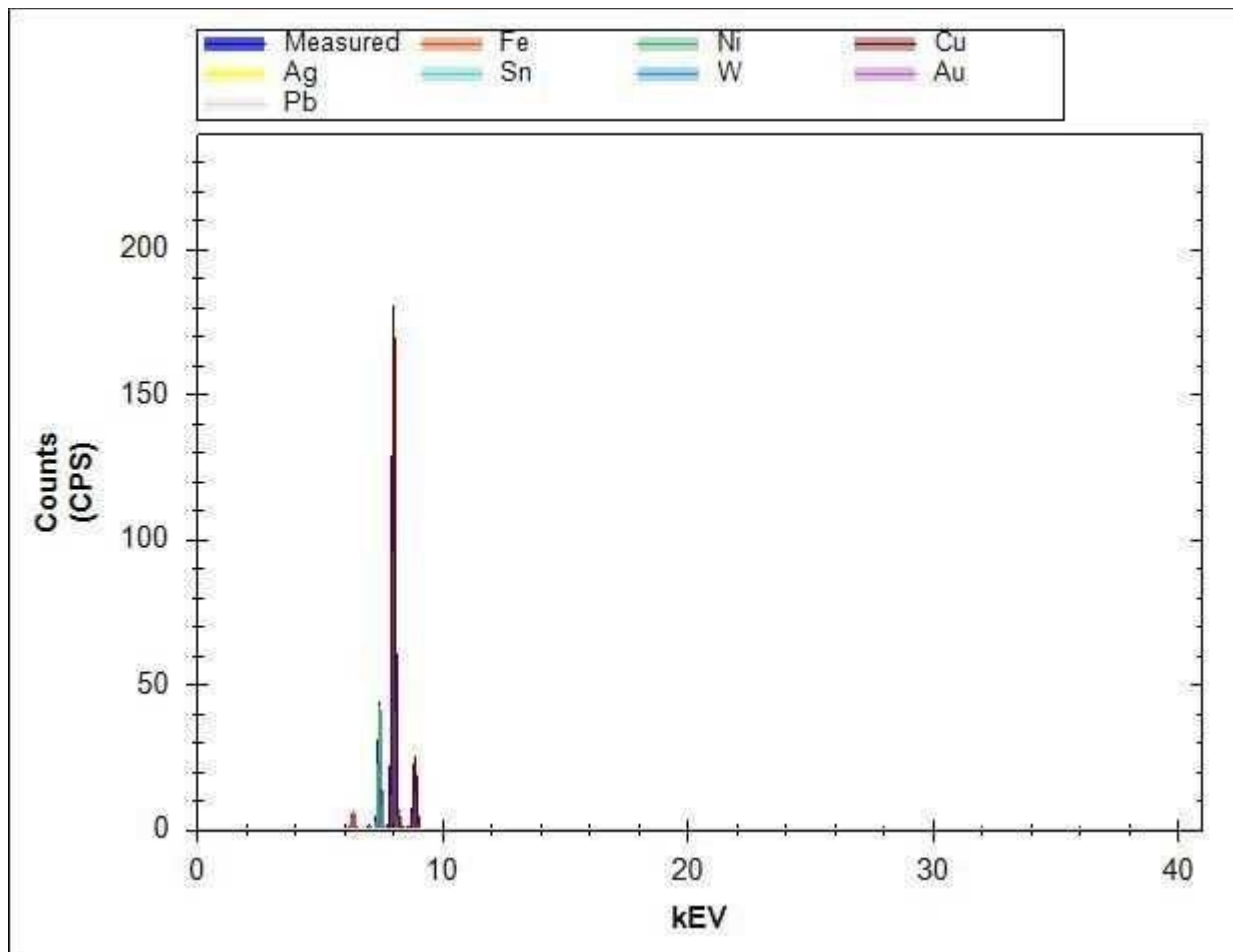
### XRF Analysis ( Continued )



XRF Spectrum - Sample 2



### XRF Analysis ( Continued )



XRF Spectrum - Sample 3



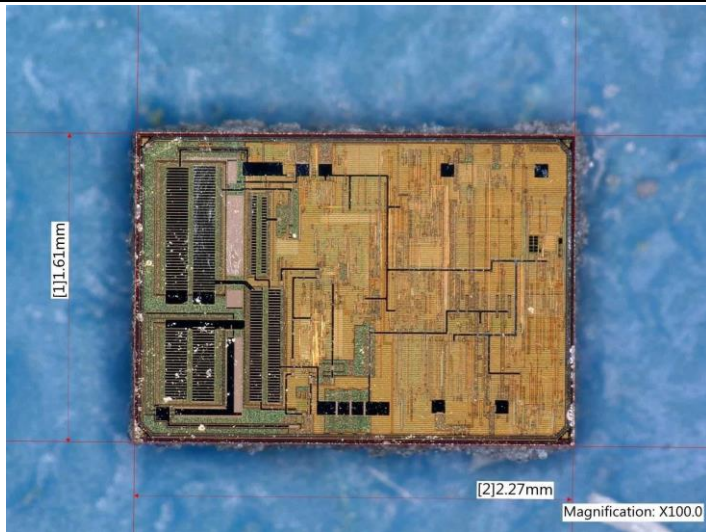


## DDPA & Internal Visual Inspection

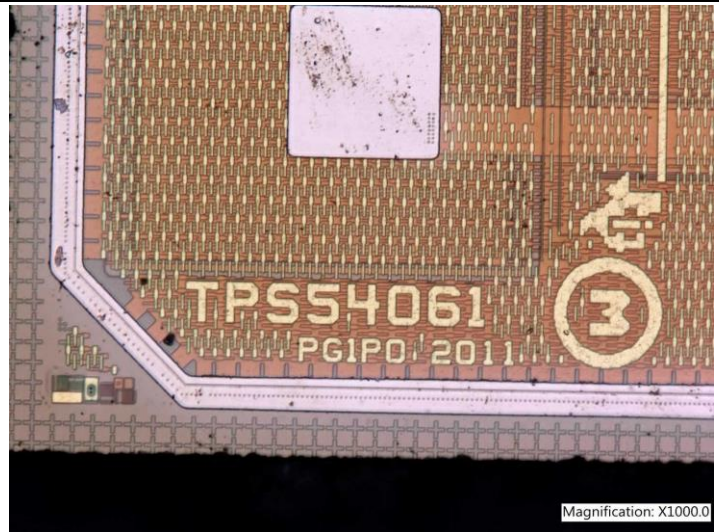
### Internal Visual Inspection per AS6081, Section 4.2.6.4.6

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

| Criteria                                                                                                                                                                                                   | Sample Size | Result | Comments      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------|---------------|
| Die Verification Match "Known Good" or AAA Data Base                                                                                                                                                       | 2           | C      | Pass          |
| Observed Defects                                                                                                                                                                                           | 2           | C      | None          |
| Topography/Markings Match "Known Good" or AAA Data Base                                                                                                                                                    | 2           | C      | Samples match |
| Internal Visual Inspection on 2 samples marked with D/C: 21+ revealed Manufacturer TI marking with 2011 copyright year and die marking TPS54061 and PG1P0. Device confirmed to be a Texas Instruments die. |             |        |               |
| Die markings consistent with information in the AAA die bank data base for this part number.                                                                                                               |             |        |               |
| Testing performed in accordance with AAA Test Procedure Manual, 622-001, Section 4                                                                                                                         |             |        |               |
| Test Operator                                                                                                                                                                                              | J Bank      |        |               |
| Test Date                                                                                                                                                                                                  | 2/8/2022    |        |               |



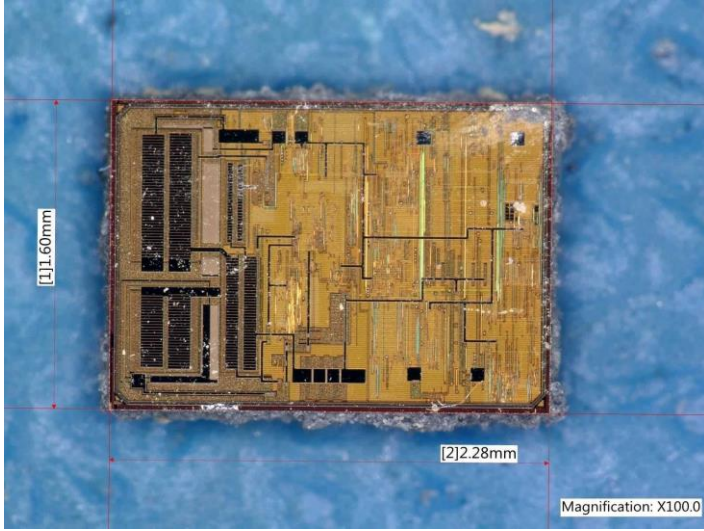
**Die Topography - D/C 2129**



**Die Markings - D/C 2129**



### DDPA & Internal Visual Inspection ( Continued )



Die Topography - D/C 2138



Die Markings - D/C 2138

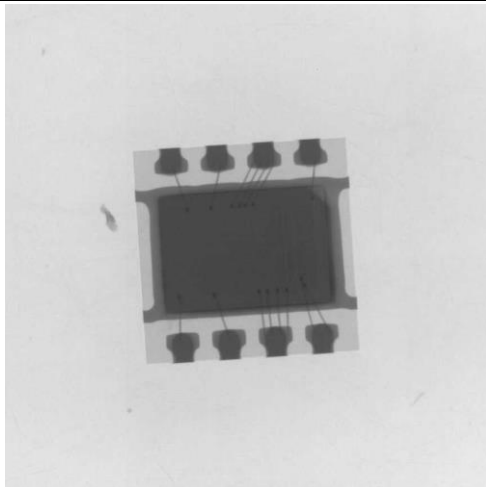


## X-Ray Inspection

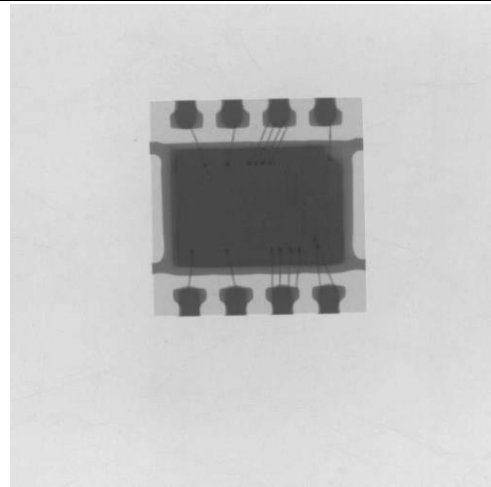
### Radiological Inspection per AS6081, Section 4.2.6.4.4

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

| Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                          | Sample Size | Result | Comments |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------|----------|
| Consistent Internal Contents                                                                                                                                                                                                                                                                                                                                                                                                                      | 10          | C      | Pass     |
| Tube Voltage                                                                                                                                                                                                                                                                                                                                                                                                                                      | 90 kV       |        |          |
| Dosage Time                                                                                                                                                                                                                                                                                                                                                                                                                                       | 300 Seconds |        |          |
| <p>Radioscopic (X-ray) analysis of 10 random sample(s) revealed the same internal structure on all the samples. No internal damages were observed during inspection.</p> <p>Radioscopic inspection performed in accordance with AAA Test Procedure Manual, 622-001, Section 7</p> <p>Represented images are typical. All images are available on request.</p> <p>Equipment: Creative Electron Tru-View Prime X-Ray, Calibration due 10/28/22)</p> |             |        |          |
| Test Operator                                                                                                                                                                                                                                                                                                                                                                                                                                     | K O'Neil    |        |          |
| Test Date                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2/8/2022    |        |          |



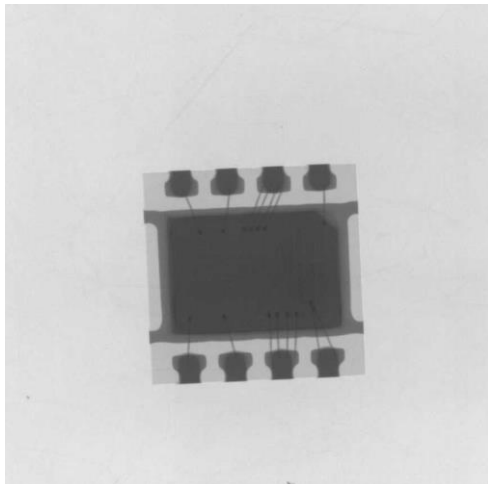
**X-Ray Analysis - Sample 1**



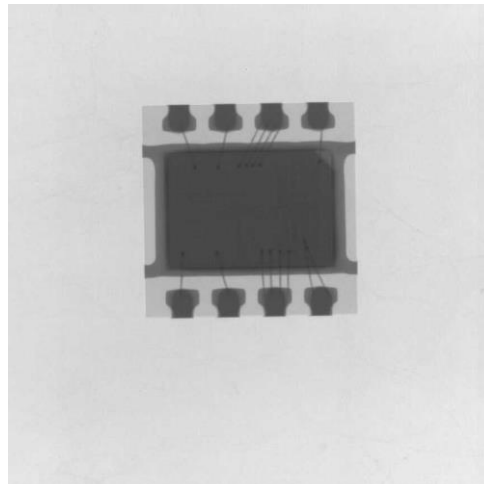
**X-Ray Analysis - Sample 2**



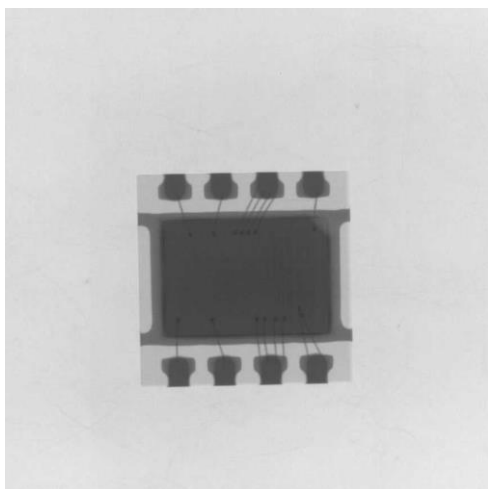
## X-Ray Inspection ( Continued )



**X-Ray Analysis - Sample 3**



**X-Ray Analysis - Sample 4**



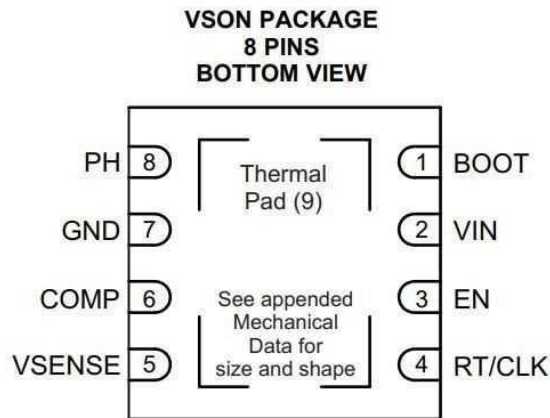
**X-Ray Analysis - Sample 5**



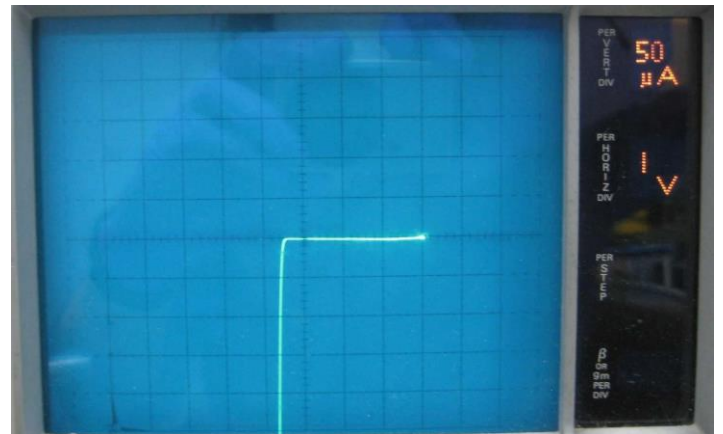
## Electrical Testing

Electrical Testing per AAA 622-001 Section 13

| Test Type                  | Quantity Tested                                                                                                                                                                                                                                       | Pass    | Fail             | Requirements    |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------------------|-----------------|
| <b>Pin Correlation</b>     | 60 pcs.                                                                                                                                                                                                                                               | 60 pcs. | 0 pcs. ( 0.00% ) | Pin Correlation |
| <b>Test Procedure</b>      | Device pin characteristics correlated to manufacturer datasheet specified pin descriptions, to verify pin out, and check for damage via Opens/Shorts Test.<br><br>Testing performed in accordance with AAA Test Procedure Manual, 622-001, Section 13 |         |                  |                 |
| <b>Parameters Verified</b> | Continuity<br>Opens/Shorts                                                                                                                                                                                                                            |         |                  |                 |
| <b>Observation</b>         | 60 devices passed all tested parameters. Device pins correlated to the manufacturer's specification.<br><br>D/C Tested: 2138                                                                                                                          |         |                  |                 |
| <b>Equipment</b>           | Tektronix Type 576 Curve Tracer - Cal Date: (07/30/23) Cert: TFL-253186                                                                                                                                                                               |         |                  |                 |
| <b>Test Operator</b>       | R O'Hare                                                                                                                                                                                                                                              |         |                  |                 |
| <b>Test Date</b>           | 2/8/2022                                                                                                                                                                                                                                              |         |                  |                 |



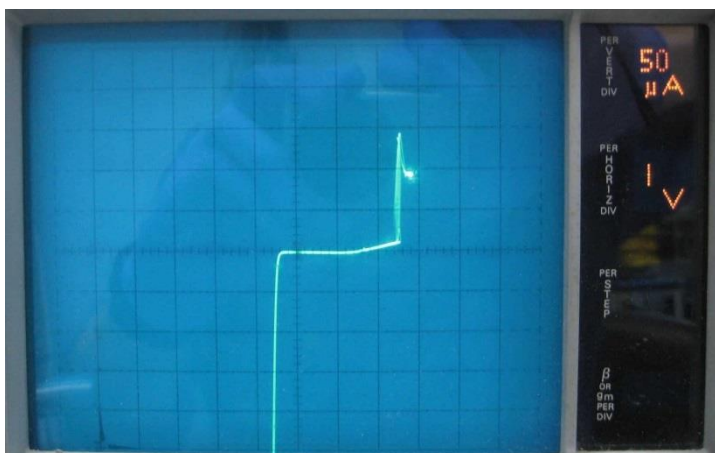
**Pin Configuration**



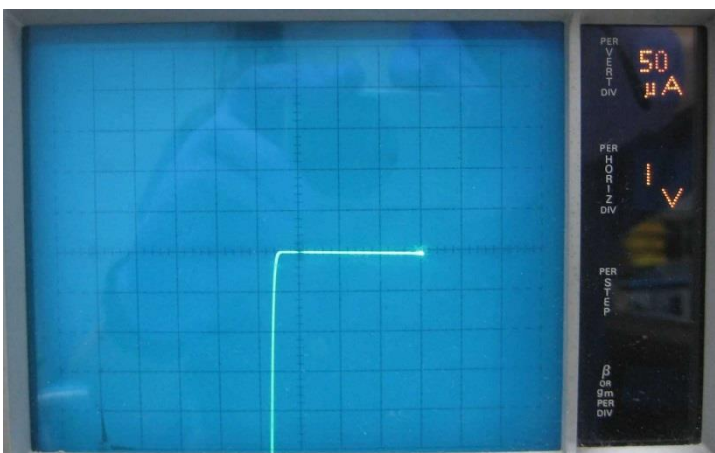
**Passing I-V Curve - PIN 1 (BOOT) to PIN 7 (GND)**



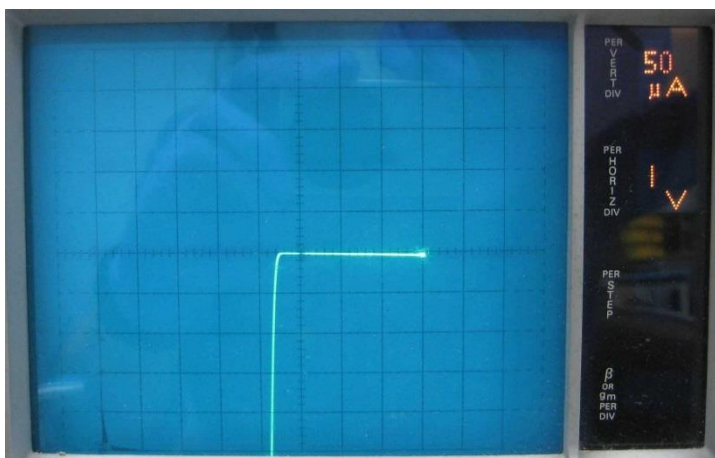
## Electrical Testing ( Continued )



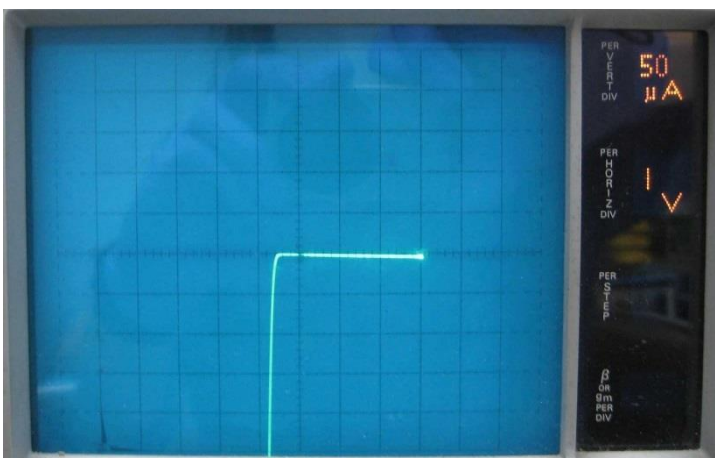
Passing I-V Curve - PIN 2 (VIN) to PIN 7 (GND)



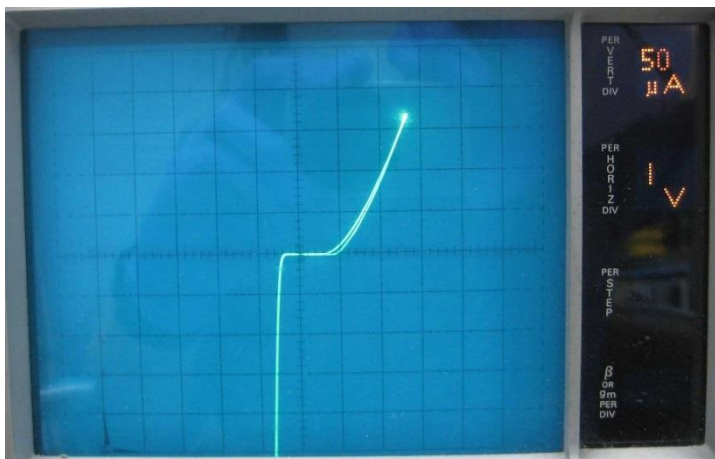
Passing I-V Curve - PIN 3 (EN) to PIN 7 (GND)



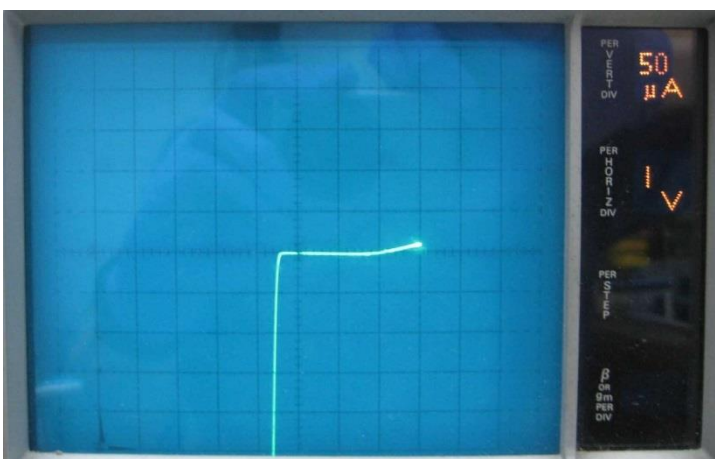
Passing I-V Curve - PIN 4 (RT/CLK) to PIN 7 (GND)



Passing I-V Curve - PIN 5 (VSENSE) to PIN 7 (GND)



Passing I-V Curve - PIN 6 (COMP) to PIN 7 (GND)



Passing I-V Curve - PIN 8 (PH) to PIN 7 (GND)



### Shipping

|         |     |         |                             |
|---------|-----|---------|-----------------------------|
| Carrier | UPS | Service | Standard to and from Canada |
|         |     |         |                             |

## Revision History

Revision #0 Date: 2/8/2022

Approved by :

Gary Heyes  
General Manager

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