



Integrated Device Technology, Inc.  
6024 Silver Creek Valley Road, San Jose, CA - 95138

## PRODUCT/PROCESS CHANGE NOTICE (PCN)

|                                                                                           |                                |                                                                                                                                                                                                                                                                                                                |
|-------------------------------------------------------------------------------------------|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PCN #: <b>A1212-01</b>                                                                    | DATE: <b>December 21, 2012</b> | MEANS OF DISTINGUISHING CHANGED DEVICES:<br><input type="checkbox"/> Product Mark      Assembly lot marked on the device<br><input checked="" type="checkbox"/> Back Mark          provides traceability to the material<br><input type="checkbox"/> Date Code          used<br><input type="checkbox"/> Other |
| Product Affected: TQFP-80, TQFP-100, TQFP-128<br>(Refer Attachment II for affected part#) |                                |                                                                                                                                                                                                                                                                                                                |
| Date Effective: <b>March 21, 2013</b>                                                     |                                |                                                                                                                                                                                                                                                                                                                |

|                                                                    |                                                                                            |
|--------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Contact: Mary Vesey                                                | Attachment: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No            |
| Title: Director, Product Assurance                                 |                                                                                            |
| Phone #: (408) 284-4565                                            |                                                                                            |
| Fax #: (408) 284-1450                                              | Samples: Please contact your local sales representative for sample request & availability. |
| E-mail: <a href="mailto:Mary.Vesey@idt.com">Mary.Vesey@idt.com</a> |                                                                                            |

### DESCRIPTION AND PURPOSE OF CHANGE:

- |                                                    |                                                                                                              |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> Die Technology            | This notification is to inform our customers that IDT is converting to a new mold compound, Sumitomo G630LD. |
| <input type="checkbox"/> Wafer Fabrication Process |                                                                                                              |
| <input type="checkbox"/> Assembly Process          |                                                                                                              |
| <input type="checkbox"/> Equipment                 |                                                                                                              |
| <input checked="" type="checkbox"/> Material       | There is no change in the moisture sensitivity level (MSL).                                                  |
| <input type="checkbox"/> Testing                   |                                                                                                              |
| <input type="checkbox"/> Manufacturing Site        | Attachment I: Details of change.                                                                             |
| <input type="checkbox"/> Data Sheet                | Attachment II: Affected part list.                                                                           |
| <input type="checkbox"/> Other                     |                                                                                                              |

### RELIABILITY/QUALIFICATION SUMMARY:

There is no expected change to the product quality or reliability performance. Refer to attachments for Qualification data.

### CUSTOMER ACKNOWLEDGMENT OF RECEIPT:

IDT records indicate that you require written notification of this change. Please use the acknowledgement below or E-Mail to grant approval or request additional information. If IDT does not receive acknowledgement within 90 days of this notice it will be assumed that this change is acceptable.

IDT reserves the right to ship either version manufactured after the process change effective date until the inventory on the earlier version has been depleted.

|                  |                                                                                        |
|------------------|----------------------------------------------------------------------------------------|
| Customer: _____  | <input type="checkbox"/> <b><i>Approval for shipments prior to effective date.</i></b> |
| Name/Date: _____ | E-Mail Address: _____                                                                  |
| Title: _____     | Phone# /Fax# : _____                                                                   |

### CUSTOMER COMMENTS:

### IDT ACKNOWLEDGMENT OF RECEIPT:

RECD. BY: \_\_\_\_\_ DATE: \_\_\_\_\_



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## PRODUCT/PROCESS CHANGE NOTICE (PCN)

### ATTACHMENT I - PCN # : A1212-01

**PCN Type:** Assembly Material

**Data Sheet Change:** None

**Details Of Change:** This notification is to inform our customers that IDT is converting to a new mold compound, Sumitomo G630LD.

There is no change in the moisture sensitivity level (MSL).

You may contact your local sales representative to acknowledge this PCN and request samples.

| Description   | Changes           |                 |
|---------------|-------------------|-----------------|
|               | From              | To              |
| Mold Compound | Hitachi CEL9200HF | Sumitomo G630LD |

### Qualification Test Plan and Results:

**Test Vehicle:** TQFP-128 (3 lots)

| Test Description                                                 | Test Method        | Test Results (Rej / SS) |        |        |
|------------------------------------------------------------------|--------------------|-------------------------|--------|--------|
| <sup>1</sup> HAST - biased<br>(130 °C/85% RH, 100 Hrs)           | JESD22-A110        | 0 / 25                  | 0 / 25 | 0 / 25 |
| <sup>1</sup> Temperature Cycling<br>(-55°C to 125°C, 700 cycles) | JESD22-A104        | 0 / 25                  | 0 / 25 | 0 / 25 |
| High Temperature Storage<br>Test<br>(150°C, 1000 hours)          | JESD22-A103        | 0 / 25                  | 0 / 25 | 0 / 25 |
| Ball Shear Test                                                  | JESD22-B116        | 0 / 5                   | 0 / 5  | 0 / 5  |
| Bond Pull Test                                                   | IDT Spec, MAC-3010 | 0 / 5                   | 0 / 5  | 0 / 5  |
| X-ray Examination                                                | IDT Spec, MAC-3012 | 0 / 45                  | 0 / 45 | 0 / 45 |

Notes: 1. Tests were subjected to Preconditioning per JESD22-A113 @ MSL 3, 260 °C



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### ATTACHMENT II - PCN # : A1212-01

#### Affected Part Numbers

| Part Number  | Part Number  | Part Number   | Part Number   |
|--------------|--------------|---------------|---------------|
| 7024L15PFG   | 7024S55PFG   | 7025S25PFG    | 70914S25PFG   |
| 7024L15PFG8  | 7024S55PFG8  | 7025S25PFG8   | 70914S25PFG8  |
| 7024L15PFGI  | 7024S55PFGI  | 7025S25PFGI   | 70914S25PFGI  |
| 7024L15PFGI8 | 7024S55PFGI8 | 7025S25PFGI8  | 70914S25PFGI8 |
| 7024L17PFG   | 7025L15PFG   | 7025S35PFG    | 70P27L12PFG   |
| 7024L17PFG8  | 7025L15PFG8  | 7025S35PFG8   | 70P27L12PFG8  |
| 7024L17PFGI  | 7025L15PFGI  | 7025S35PFGI   | 70P27L15PFGI  |
| 7024L17PFGI8 | 7025L15PFGI8 | 7025S35PFGI8  | 70P27L15PFGI8 |
| 7024L20PFG   | 7025L17PFG   | 7025S45PFG    | 70V22L15PFG   |
| 7024L20PFG8  | 7025L17PFG8  | 7025S45PFG8   | 70V22L15PFG8  |
| 7024L20PFGI  | 7025L17PFGI  | 7025S45PFGI   | 70V22L20PFG   |
| 7024L20PFGI8 | 7025L17PFGI8 | 7025S45PFGI8  | 70V22L20PFG8  |
| 7024L25PFG   | 7025L20PFG   | 7025S55PFG    | 70V22L20PFGI  |
| 7024L25PFG8  | 7025L20PFG8  | 7025S55PFG8   | 70V22L20PFGI8 |
| 7024L25PFGI  | 7025L20PFGI  | 7025S55PFGI   | 70V24L15PFG   |
| 7024L25PFGI8 | 7025L20PFGI8 | 7025S55PFGI8  | 70V24L15PFG8  |
| 7024L35PFG   | 7025L25PFG   | 70914L12PFG   | 70V24L15PFGI  |
| 7024L35PFG8  | 7025L25PFG8  | 70914L12PFG8  | 70V24L15PFGI8 |
| 7024L35PFGI  | 7025L25PFGI  | 70914L12PFGI  | 70V24L20PFG   |
| 7024L35PFGI8 | 7025L25PFGI8 | 70914L12PFGI8 | 70V24L20PFG8  |
| 7024L55PFG   | 7025L35PFG   | 70914L15PFG   | 70V24L20PFGI  |
| 7024L55PFG8  | 7025L35PFG8  | 70914L15PFG8  | 70V24L20PFGI8 |
| 7024L55PFGI  | 7025L35PFGI  | 70914L15PFGI  | 70V24L25PFG   |
| 7024L55PFGI8 | 7025L35PFGI8 | 70914L15PFGI8 | 70V24L25PFG8  |
| 7024S15PFG   | 7025L45PFG   | 70914L20PFG   | 70V24L25PFGI  |
| 7024S15PFG8  | 7025L45PFG8  | 70914L20PFG8  | 70V24L25PFGI8 |
| 7024S15PFGI  | 7025L45PFGI  | 70914L20PFGI  | 70V24L35PFG   |
| 7024S15PFGI8 | 7025L45PFGI8 | 70914L20PFGI8 | 70V24L35PFG8  |
| 7024S17PFG   | 7025L55PFG   | 70914L25PFG   | 70V24L35PFGI  |
| 7024S17PFG8  | 7025L55PFG8  | 70914L25PFG8  | 70V24L35PFGI8 |
| 7024S17PFGI  | 7025L55PFGI  | 70914L25PFGI  | 70V24L55PFG   |
| 7024S17PFGI8 | 7025L55PFGI8 | 70914L25PFGI8 | 70V24L55PFG8  |
| 7024S20PFG   | 7025S15PFG   | 70914S12PFG   | 70V24L55PFGI  |
| 7024S20PFG8  | 7025S15PFG8  | 70914S12PFG8  | 70V24L55PFGI8 |
| 7024S20PFGI  | 7025S15PFGI  | 70914S12PFGI  | 70V24S15PFG   |
| 7024S20PFGI8 | 7025S15PFGI8 | 70914S12PFGI8 | 70V24S15PFG8  |
| 7024S25PFG   | 7025S17PFG   | 70914S15PFG   | 70V24S15PFGI  |
| 7024S25PFG8  | 7025S17PFG8  | 70914S15PFG8  | 70V24S15PFGI8 |
| 7024S25PFGI  | 7025S17PFGI  | 70914S15PFGI  | 70V24S20PFG   |
| 7024S25PFGI8 | 7025S17PFGI8 | 70914S15PFGI8 | 70V24S20PFG8  |
| 7024S35PFG   | 7025S20PFG   | 70914S20PFG   | 70V24S20PFGI  |
| 7024S35PFG8  | 7025S20PFG8  | 70914S20PFG8  | 70V24S20PFGI8 |
| 7024S35PFGI  | 7025S20PFGI  | 70914S20PFGI  | 70V24S25PFG   |
| 7024S35PFGI8 | 7025S20PFGI8 | 70914S20PFGI8 | 70V24S25PFG8  |



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### ATTACHMENT II - PCN # : A1212-01

#### Affected Part Numbers

| Part Number   | Part Number        | Part Number      | Part Number       |
|---------------|--------------------|------------------|-------------------|
| 70V24S25PFGI  | 70V25S35PFGI8      | 7133LA35PFGI     | 72V283L7-5PFGI8   |
| 70V24S25PFGI8 | 70V25S55PFG        | 7133LA35PFGI8    | 72V293L10PFGI     |
| 70V24S35PFG   | 70V25S55PFG8       | 7133LA55PFG      | 72V293L10PFGI8    |
| 70V24S35PFG8  | 70V25S55PFGI       | 7133LA55PFG8     | 72V293L6PFG       |
| 70V24S35PFGI  | 70V25S55PFGI8      | 7133LA55PFGI     | 72V293L6PFG8      |
| 70V24S35PFGI8 | 70V28L15PFG        | 7133LA55PFGI8    | 72V293L7-5PFGI    |
| 70V24S55PFG   | 70V28L15PFG8       | 7133SA20PFG      | 72V293L7-5PFGI8   |
| 70V24S55PFG8  | 70V28L15PFGI       | 7133SA20PFG8     | 72V70200PFG       |
| 70V24S55PFGI  | 70V28L15PFGI/2703  | 7133SA20PFGI     | 72V70200PFG8      |
| 70V24S55PFGI8 | 70V28L15PFGI8      | 7133SA20PFGI8    | 72V90823PFG       |
| 70V25L15PFG   | 70V28L15PFGI8/2703 | 7133SA25PFG      | 72V90823PFG8      |
| 70V25L15PFG8  | 70V28L20PFG        | 7133SA25PFG8     | 82P2281PFG        |
| 70V25L15PFGI  | 70V28L20PFG8       | 7133SA25PFGI     | 82P2281PFG8       |
| 70V25L15PFGI8 | 70V28L20PFGI       | 7133SA25PFGI8    | 82V2042EPFG       |
| 70V25L20PFG   | 70V28L20PFGI8      | 7133SA35PFG      | 82V2042EPFG8      |
| 70V25L20PFG8  | 70V28L25PFG        | 7133SA35PFG8     | 82V2052EPFG       |
| 70V25L20PFGI  | 70V28L25PFG8       | 7133SA35PFGI     | 82V2052EPFG8      |
| 70V25L20PFGI8 | 70V28L25PFGI       | 7133SA35PFGI8    | 82V2082PFG        |
| 70V25L25PFG   | 70V28L25PFGI8      | 7133SA55PFG      | 82V2082PFG-ECI    |
| 70V25L25PFG8  | 70V28VL15PFG       | 7133SA55PFG8     | 82V2082PFG8       |
| 70V25L25PFGI  | 70V28VL15PFG8      | 7133SA55PFGI     | 82V2082PFG8-ECI   |
| 70V25L25PFGI8 | 70V28VL15PFGI      | 7133SA55PFGI8    | 89HMPEB383ZAEMG   |
| 70V25L35PFG   | 70V28VL15PFGI8     | 72V18160L10PFGI  | 89HMPEB383ZAEMG8  |
| 70V25L35PFG8  | 70V28VL20PFG       | 72V18160L10PFGI8 | 89HMPEB383ZAEMGI  |
| 70V25L35PFGI  | 70V28VL20PFG8      | 72V263L10PFG     | 89HMPEB383ZAEMGI8 |
| 70V25L35PFGI8 | 70V28VL20PFGI      | 72V263L10PFG8    | 89HMPEB383ZBEMG   |
| 70V25L55PFG   | 70V28VL20PFGI8     | 72V263L6PFG      | 89HMPEB383ZBEMG8  |
| 70V25L55PFG8  | 70V28VL25PFG       | 72V263L6PFG8     | 89HMPEB383ZBEMGI  |
| 70V25L55PFGI  | 70V28VL25PFG8      | 72V273L10PFG     | 89HMPEB383ZBEMGI8 |
| 70V25L55PFGI8 | 70V28VL25PFGI      | 72V273L10PFG8    | 89HPEB383ZAEMG    |
| 70V25S15PFG   | 70V28VL25PFGI8     | 72V273L15PFG     | 89HPEB383ZAEMG8   |
| 70V25S15PFG8  | 70V34L15PFG        | 72V273L15PFG8    | 89HPEB383ZAEMGI   |
| 70V25S15PFGI  | 70V34L15PFG8       | 72V273L6PFG      | 89HPEB383ZAEMGI8  |
| 70V25S15PFGI8 | 7133LA17PFG        | 72V273L6PFG8     | 89HPEB383ZBEMG    |
| 70V25S20PFG   | 7133LA17PFG8       | 72V273L7-5PFG    | 89HPEB383ZBEMG8   |
| 70V25S20PFG8  | 7133LA20PFG        | 72V273L7-5PFG8   | 89HPEB383ZBEMGI   |
| 70V25S20PFGI  | 7133LA20PFG8       | 72V273L7-5PFGI   | 89HPEB383ZBEMGI8  |
| 70V25S20PFGI8 | 7133LA20PFGI       | 72V273L7-5PFGI8  | 90E46EMGI         |
| 70V25S25PFG   | 7133LA20PFGI8      | 72V283L10PFGI    | 90E46EMGI8        |
| 70V25S25PFG8  | 7133LA25PFG        | 72V283L10PFGI8   | VHD1900EVG        |
| 70V25S25PFGI  | 7133LA25PFG8       | 72V283L6PFG      | VHD1900EVG8       |
| 70V25S25PFGI8 | 7133LA25PFGI       | 72V283L6PFG8     | VPP1101AEVG       |
| 70V25S35PFG   | 7133LA25PFGI8      | 72V283L6PFGI     | VPP1101AEVG8      |
| 70V25S35PFG8  | 7133LA35PFG        | 72V283L6PFGI8    | VPP1602EMG        |
| 70V25S35PFGI  | 7133LA35PFG8       | 72V283L7-5PFGI   | VPP1602EMG8       |