



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

PRODUCT/PROCESS CHANGE NOTICE (PCN)

PCN #: **A1212-01R1** DATE: **March 25, 2013**
 Product Affected: TQFP-100, TQFP-128
 (Refer Attachment II for the updated affected part#)

MEANS OF DISTINGUISHING CHANGED DEVICES:
 Product Mark Assembly lot marked on the device
 Back Mark provides traceability to the material
 Date Code used
 Other

Date Effective: **June 25, 2013**

Contact: Mary Vesey
 Title: Director, Product Assurance
 Phone #: (408) 284-4565
 Fax #: (408) 284-1450
 E-mail: Mary.Vesey@idt.com

Attachment: Yes No
 Samples: Please contact your local sales representative for
 sample request & availability.

DESCRIPTION AND PURPOSE OF CHANGE:

- Die Technology
- Wafer Fabrication Process
- Assembly Process
- Equipment
- Material
- Testing
- Manufacturing Site
- Data Sheet
- Other

Revision 1: This revised notification is to inform our customers that IDT is adding Sumitomo G630LD as an alternate mold compound for the list of products as listed in Attachment II, which assembled in Chipmos, Taiwan. This PCN does not affect the products assembled in other qualified assembly locations.

In addition, all devices from TQFP-80, selective devices from TQFP-100 and TQFP-128 will be removed from the affected part list.

PCN effective date will be extended to June 25, 2013.

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

Attachment I: Details of change.
 Attachment II: Updated Affected part list.
 Attachment III: Part# removed from the revised PCN.

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: _____ ***Approval for shipments prior to effective date.***
 Name/Date: _____ E-Mail Address: _____
 Title: _____ Phone# /Fax# : _____

CUSTOMER COMMENTS: _____

IDT ACKNOWLEDGMENT OF RECEIPT:

RECD. BY: _____ DATE: _____



PRODUCT/PROCESS CHANGE NOTICE (PCN)

ATTACHMENT I - PCN # : A1212-01R1

PCN Type: Assembly Material

Data Sheet Change: None

Details Of Change:

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In addition, all devices from TQFP-80, selective devices from TQFP-100 and TQFP-128 will be removed from the affected part list.

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

Description	Existing	New
Mold Compound used by Chipmos, Taiwan	Hitachi CEL9200HF	Hitachi CEL9200HF or Sumitomo G630LD

Qualification Test Plan and Results:

Test Vehicle: TQFP-128 (3 lots)

Test Description	Test Method	Test Results (Rej / SS)		
¹ HAST - biased (130 °C/85% RH, 100 Hrs)	JESD22-A110	0 / 25	0 / 25	0 / 25
¹ Temperature Cycling (-55°C to 125°C, 700 cycles)	JESD22-A104	0 / 25	0 / 25	0 / 25
High Temperature Storage Test (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 # : A1212-01R1

Updated Affected Part Numbers

Part Number	Part Number	Part Number	Part Number
89HMPEB383ZAEMG	89HMPEB383ZBEMG8	89HPEB383ZAEMGI	89HPEB383ZBEMGI8
89HMPEB383ZAEMG8	89HMPEB383ZBEMGI	89HPEB383ZAEMGI8	90E46EMGI
89HMPEB383ZAEMGI	89HMPEB383ZBEMGI8	89HPEB383ZBEMG	90E46EMGI8
89HMPEB383ZAEMGI8	89HPEB383ZAEMG	89HPEB383ZBEMG8	
89HMPEB383ZBEMG	89HPEB383ZAEMG8	89HPEB383ZBEMGI	



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PRODUCT/PROCESS CHANGE NOTICE (PCN)

ATTACHMENT III - PCN # : A1212-01R1

Part Numbers Removed from PCN

Part Number	Part Number	Part Number	Part Number
7024L15PFG	7024S55PFG8	7025S25PFGI	70914S25PFGI8
7024L15PFG8	7024S55PFGI	7025S25PFGI8	70P27L12PFG
7024L15PFGI	7024S55PFGI8	7025S35PFG	70P27L12PFG8
7024L15PFGI8	7025L15PFG	7025S35PFG8	70P27L15PFGI
7024L17PFG	7025L15PFG8	7025S35PFGI	70P27L15PFGI8
7024L17PFG8	7025L15PFGI	7025S35PFGI8	70V22L15PFG
7024L17PFGI	7025L15PFGI8	7025S45PFG	70V22L15PFG8
7024L17PFGI8	7025L17PFG	7025S45PFG8	70V22L20PFG
7024L20PFG	7025L17PFG8	7025S45PFGI	70V22L20PFG8
7024L20PFG8	7025L17PFGI	7025S45PFGI8	70V22L20PFGI
7024L20PFGI	7025L17PFGI8	7025S55PFG	70V22L20PFGI8
7024L20PFGI8	7025L20PFG	7025S55PFG8	70V24L15PFG
7024L25PFG	7025L20PFG8	7025S55PFGI	70V24L15PFG8
7024L25PFG8	7025L20PFGI	7025S55PFGI8	70V24L15PFGI
7024L25PFGI	7025L20PFGI8	70914L12PFG	70V24L15PFGI8
7024L25PFGI8	7025L25PFG	70914L12PFG8	70V24L20PFG
7024L35PFG	7025L25PFG8	70914L12PFGI	70V24L20PFG8
7024L35PFG8	7025L25PFGI	70914L12PFGI8	70V24L20PFGI
7024L35PFGI	7025L25PFGI8	70914L15PFG	70V24L20PFGI8
7024L35PFGI8	7025L35PFG	70914L15PFG8	70V24L25PFG
7024L55PFG	7025L35PFG8	70914L15PFGI	70V24L25PFG8
7024L55PFG8	7025L35PFGI	70914L15PFGI8	70V24L25PFGI
7024L55PFGI	7025L35PFGI8	70914L20PFG	70V24L25PFGI8
7024L55PFGI8	7025L45PFG	70914L20PFG8	70V24L35PFG
7024S15PFG	7025L45PFG8	70914L20PFGI	70V24L35PFG8
7024S15PFG8	7025L45PFGI	70914L20PFGI8	70V24L35PFGI
7024S15PFGI	7025L45PFGI8	70914L25PFG	70V24L35PFGI8
7024S15PFGI8	7025L55PFG	70914L25PFG8	70V24L55PFG
7024S17PFG	7025L55PFG8	70914L25PFGI	70V24L55PFG8
7024S17PFG8	7025L55PFGI	70914L25PFGI8	70V24L55PFGI
7024S17PFGI	7025L55PFGI8	70914S12PFG	70V24L55PFGI8
7024S17PFGI8	7025S15PFG	70914S12PFG8	70V24S15PFG
7024S20PFG	7025S15PFG8	70914S12PFGI	70V24S15PFG8
7024S20PFG8	7025S15PFGI	70914S12PFGI8	70V24S15PFGI
7024S20PFGI	7025S15PFGI8	70914S15PFG	70V24S15PFGI8
7024S20PFGI8	7025S17PFG	70914S15PFG8	70V24S20PFG
7024S25PFG	7025S17PFG8	70914S15PFGI	70V24S20PFG8
7024S25PFG8	7025S17PFGI	70914S15PFGI8	70V24S20PFGI
7024S25PFGI	7025S17PFGI8	70914S20PFG	70V24S20PFGI8
7024S25PFGI8	7025S20PFG	70914S20PFG8	70V24S25PFG
7024S35PFG	7025S20PFG8	70914S20PFGI	70V24S25PFG8
7024S35PFG8	7025S20PFGI	70914S20PFGI8	70V24S25PFGI
7024S35PFGI	7025S20PFGI8	70914S25PFG	70V24S25PFGI8
7024S35PFGI8	7025S25PFG	70914S25PFG8	70V24S35PFG
7024S55PFG	7025S25PFG8	70914S25PFGI	70V24S35PFG8



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Part Number	Part Number	Part Number	Part Number
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	82V2082PFG8
70V25L25PFG8	70V28VL15PFG	7133SA55PFG8	82V2082PFG8-ECI
70V25L25PFGI	70V28VL15PFG8	7133SA55PFGI	82V2082PFG-ECI
70V25L25PFGI8	70V28VL15PFGI	7133SA55PFGI8	VPP1602EMG
70V25L35PFG	70V28VL15PFGI8	72V18160L10PFGI	VPP1602EMG8
70V25L35PFG8	70V28VL20PFG	72V18160L10PFGI8	VPP1101AEVG
70V25L35PFGI	70V28VL20PFG8	72V263L10PFG	VPP1101AEVG8
70V25L35PFGI8	70V28VL20PFGI	72V263L10PFG8	VHD1900EVG
70V25L55PFG	70V28VL20PFGI8	72V263L6PFG	VHD1900EVG8
70V25L55PFG8	70V28VL25PFG	72V263L6PFG8	
70V25L55PFGI	70V28VL25PFG8	72V273L10PFG	
70V25L55PFGI8	70V28VL25PFGI	72V273L10PFG8	
70V25S15PFG	70V28VL25PFGI8	72V273L15PFG	
70V25S15PFG8	70V34L15PFG	72V273L15PFG8	
70V25S15PFGI	70V34L15PFG8	72V273L6PFG	
70V25S15PFGI8	7133LA17PFG	72V273L6PFG8	
70V25S20PFG	7133LA17PFG8	72V273L7-5PFG	
70V25S20PFG8	7133LA20PFG	72V273L7-5PFG8	
70V25S20PFGI	7133LA20PFG8	72V273L7-5PFGI	
70V25S20PFGI8	7133LA20PFGI	72V273L7-5PFGI8	
70V25S25PFG	7133LA20PFGI8	72V283L10PFGI	
70V25S25PFG8	7133LA25PFG	72V283L10PFGI8	
70V25S25PFGI	7133LA25PFG8	72V283L6PFG	
70V25S25PFGI8	7133LA25PFGI	72V283L6PFG8	
70V25S35PFG	7133LA25PFGI8	72V283L6PFGI	
70V25S35PFG8	7133LA35PFG	72V283L6PFGI8	
70V25S35PFGI	7133LA35PFG8	72V283L7-5PFGI	
70V25S35PFGI8	7133LA35PFGI	72V283L7-5PFGI8	
70V25S55PFG	7133LA35PFGI8	72V293L10PFGI	
70V25S55PFG8	7133LA55PFG	72V293L10PFGI8	
70V25S55PFGI	7133LA55PFG8	72V293L6PFG	