



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

PRODUCT/PROCESS CHANGE NOTICE (PCN)

PCN #: A1004-04	DATE: 26-Jul-2010	MEANS OF DISTINGUISHING CHANGED DEVICES:
Product Affected: 15.0mm x 15.0mm x 1.7mm FPBGA-324 (Green) VPP1552BFG VPP1552BFG8		<input type="checkbox"/> Product Mark <input checked="" type="checkbox"/> Back Mark <u>Lot# will have the following prefix:</u> <input type="checkbox"/> Date Code "P" prefix for ATP <input type="checkbox"/> Other "R" prefix for ASEK
Date Effective: 26-Oct-2010		

Contact: PS Tow	
Title: Director, Product Assurance	Attachment: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Phone #: (408) 284-8206	
Fax #: (408) 284-1450	Samples: Please contact your local sales representative for sample request & availability.
E-mail: pstow@idt.com	

DESCRIPTION AND PURPOSE OF CHANGE:

<input type="checkbox"/> Die Technology	This notification is to advise our customers that IDT is adding ATP, Philippines and ASEK, Taiwan as the alternate assembly facilities for 15.0mm x 15.0mm x 1.7mm FPBGA-324 green version. There is no change to the moisture performance of this package.
<input type="checkbox"/> Wafer Fabrication Process	
<input type="checkbox"/> Assembly Process	
<input type="checkbox"/> Equipment	
<input type="checkbox"/> Material	
<input type="checkbox"/> Testing	Attachment I details the qualification data for this change and Attachment II shows the affected list of part numbers.
<input checked="" type="checkbox"/> Manufacturing Site	
<input type="checkbox"/> Data Sheet	
<input type="checkbox"/> Other	

RELIABILITY/QUALIFICATION SUMMARY:

Refer to qualification data shown in attachment I.

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 30 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"/> <i>Approval for shipments prior to effective date.</i>
Name/Date: _____	E-Mail Address: _____
Title: _____	Phone# /Fax# : _____

CUSTOMER COMMENTS:

IDT ACKNOWLEDGMENT OF RECEIPT:

RECD. BY: _____ DATE: _____



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ATTACHMENT I - PCN # : A1004-04

PCN Type: Manufacturing Site - Alternate Assembly Location

Data Sheet Change: None

No change in moisture sensitivity level (MSL)

Detail Of Change:

This notification is to advise our customers that IDT is adding ATP, Philippines and ASEK, Taiwan as the alternate assembly facilities for 15.0mm x 15.0mm x 1.7mm FPBGA-324 green version. There is no change to the moisture performance of this package using the assembly material sets as listed in the below table.

Qualification Information and Qualification Data:

Affected Packages: 15.0mm x 15.0mm x 1.7mm FPBGA-324 (BFG324)

Assembly Material: See Table below

Description	Existing	Add	
Assembly Location	SPIL, Taiwan	ATP, Philippines	ASEK, Taiwan
Assembly Materials	Die Attach: Ablestik 2000	2000B	2100A
	Wire: Au wire 0.9 mil	0.8 mil	0.9 mil
	Mold Compound: GE100LFCS	GE100LFCS	KE1250LKDS
	Substrate: HL832-NX/AUS 308	HL832NXA (EX)	HL832NXA (EX)
	Solder Balls: Sn96.5/Ag3.0/Cu0.5	Sn96.5/Ag3.0/Cu0.5	Sn96.5/Ag3.0/Cu0.5



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ATTACHMENT I - PCN # : A1004-04

Qualification Test Plans and Results :

(I) Qual data for ATP, Philippines

Qual Vehicle: 15.0mm x 15.0mm x 1.7mm FPBGA-324 (1 lot)

Test Description	Test Method	Test Results (SS / Rej)
* High Accelerated Stress Test (Biased, 130 °C/85% RH, 100 Hrs)	JESD22-A110	25/0
* Temperature Cycle (-55 °C to +125 °C, 1000 Cyc)	JESD22-A104	25/0
High Temp. Storage Test (150 °C, 1000 Hrs)	JESD22-A103	24/0

Note:

* Test requires moisture pre-conditioning sequence per JESD22-A113 and will use the existing moisture sensitivity level that has been qualified for this material set.

(II) Qual data for ASEK, Taiwan

Qual Vehicle: 13mm x 13mm LBGA-167 (1 lot)

Test Description	Test Method	Test Results (SS / Rej)
* High Accelerated Stress Test (Unbiased, 130 °C/85% RH, 100 Hrs)	JESD22-A118	77/0
* Temperature Cycle (-65 °C to +150 °C, 500 Cyc)	JESD22-A104	77/0
High Temp. Storage Test (150 °C, 1000 Hrs)	JESD22-A103	77/0

Note:

* Test requires moisture pre-conditioning sequence per JESD22-A113 and will use the existing moisture sensitivity level that has been qualified for this material set.