



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

PRODUCT/PROCESS CHANGE NOTICE (PCN)

PCN #: A-0511-01	DATE: 11/21/2005	MEANS OF DISTINGUISHING CHANGED DEVICES: <input type="checkbox"/> Product Mark <input checked="" type="checkbox"/> Back Mark Lot # will have "L" prefix <input type="checkbox"/> Date Code <input type="checkbox"/> Other
Product Affected: VFQFP-N packages (See attached affected part # list)		
Date Effective: 12/22/2005		

Contact: Geoffrey Cortes Title: Corporate Quality & Reliability Phone #: (408) 284-8321 Fax #: (408) 284-1450 E-mail: Geoffrey.Cortes@idt.com	Attachment: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Samples: Please contact your local sales representative for sample request & availability.
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DESCRIPTION AND PURPOSE OF CHANGE:

<input type="checkbox"/> Die Technology <input type="checkbox"/> Wafer Fabrication Process <input type="checkbox"/> Assembly Process <input type="checkbox"/> Equipment <input type="checkbox"/> Material <input type="checkbox"/> Testing <input checked="" type="checkbox"/> Manufacturing Site <input type="checkbox"/> Data Sheet <input type="checkbox"/> Other	<p>This notification is to advise our customers that IDT VFQFP-N black and green packages currently assembled at ASAT-Hong Kong facility will be transferred to ASAT-Dong Guan, China.</p> <p>Attachment 1 outlines the qualification data Attachment 2 shows the affected part number list</p>
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RELIABILITY/QUALIFICATION SUMMARY:

There is no expected change to the product quality or reliability performance.

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 1 - PCN # : A-0511-01

PCN Type: Manufacturing Site

Data Sheet Change: None.

No change in moisture sensitivity levels (MSL)

Detail Of Change:

This notification is to advise our customers that IDT VFQFP-N black and green packages currently assembled at ASAT-Hong Kong facility will be transferred to ASAT-Dong Guan, China. ASAT-Dong Guan will use the same qualified assembly material (mold compound, die attach, bond wire etc.), assembly equipment, assembly process, and plating chemistry for Sn/Pb and Pb-Free plating as ASAT-Hong Kong. There is also no change in current moisture classification level (MSL). Therefore, the assembly transfer is not expected to have any adverse impact on the product quality or reliability.

Attachment 1 outlines the qualification data

Attachment 2 shows the affected part number list

During the transition period, IDT will continue to support customer shipments with inventory built at ASAT-Hong Kong facility or previously qualified assembly subcontractors and does not anticipate any impact on the product availability.



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ATTACHMENT 1 - PCN # : A-0511-01

Qualification Test Results:

Test Vehicles: **24L and 64L Pb-Free VFQFP-N**

Test Description	Test Method	Sample Size / # of Fails	Test Results (SS/Rej)
* Temperature Cycling (Cond B, 1000 cycles)	JESD22-A104-B	45/0	45/0
* Unbiased HAST (130°C, 85% RH, 100 hours)	JESD22-A102-C	45/0	45/0
High Temperature Stabilization Bake (150 °C, 1000 hours)	JESD22-A108-B	77/0	77/0

Notes: * Test requires moisture pre-conditioning sequence per JESD22-A113C.

Test Vehicles: **28L, 56L and 68L (Pb-Free) VFQFP-N**

Test Description	Test Method	Sample Size / # of Fails	Test Results (SS/Rej)
Moisture Sensitivity Classification, L3	J-STD-020B	90/0	90/0
Internal Visual Inspection	MIL-STD-883, M2010	5/0	5/0
External Visual Inspection	JESD22-B101	25/0	25/0
X-ray Examination	MIL-STD-883, M2015	45/0	45/0
Bond Pull Test	MIL-STD-883, M2011	5/0	5/0
Resistance To Solvents	JESD22-B107C	3/0	3/0
Solderability Test	JESD22-B102D	5/0	5/0
Bake & Ball Shear Strength	JESD22-B116	5/0	5/0
Physical Dimensions	JESD22-B100-B	5/0	5/0
Die Shear Strength	MIL-STD-883, M2019	5/0	5/0

Tin Whisker Evaluation Test Results

Test Vehicles: **48L (Pb Free) VFQFP-N**

Test Description	Test Condition	Test Duration	Spec Limits	Test Results (SS/Rej)
Storage Test	25°C/30% - 80% RH	0, 1000, 2000 hours	40µm max.	9/0
Aging	60°C / 90% RH	0, 1000, 2000 hours	40µm max.	9/0
Temperature Cycling	-55°C to +85°C	0, 500 cycles	40µm max.	9/0



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ATTACHMENT 2 - PCN # : A-0511-01

Affected Part Number List

IDT5T2010NLGI	IDT5T9820NLI	IDT74SSTVN16859NLG
IDT5T2010NLI	IDT5T9821NLGI	IDTCSPT857CNL
IDT5T2110NLGI	IDT5T9821NLI	IDTCSPT857CNLG
IDT5T2110NLI	IDT5T9890NLGI	IDTCSPT857DNL
IDT5T929-10NLI	IDT5T9890NLI	IDTCSPT857DNLG
IDT5T929-30NLI	IDT5T9891NLGI	IDTCSPU877ANL
IDT5T9306NLI	IDT5T9891NLI	IDTCSPU877ANLG
IDT5T9310NLI	IDT5V2305NRI	IDTCSPU877DNLG
IDT5T9316NLI	IDT5V2310NRI	IDTCSPU877NL
IDT5T93GL06NLGI	IDT5V9885KNLGI	IDTCV145NLG
IDT5T93GL06NLI	IDT5V9885NLGI	IDTCV150NLG
IDT5T93GL10NLGI	IDT74SSTV16859NL	IDTCV153NLG
IDT5T93GL10NLI	IDT74SSTV16859NLG	IDTCV155NLG
IDT5T93GL16NLI	IDT74SSTVF16859NL	IDTCV164NLG
IDT5T940-10NLI	IDT74SSTVF16859NLG	IDTCV168NLG
IDT5T940-30NLI	IDT74SSTVN16859CNLG	IDTCV171NLG
IDT5T9820NLGI	IDT74SSTVN16859NL	