

## PRODUCT/PROCESS CHANGE NOTICE (PCN)

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PCN #: TB1507-01 DATE: August 18, 2015 Product Affected: Selective part# of VFQFPN-16 (Refer to Attachment II for affected part#)		MEANS OF DISTINGUISHING CHANGED DEVICES:  □ Product Mark □ Back Mark □ Date Code  Lot shipments will have Level 1 Moisture Sensitive Label		
Date Effective: August 18, 2015		■ Other		
Contact: IDT PCN DESK E-mail: pcndesk@idt.com		Attachment: Samples:	Yes N/A	☐ No
DESCRIPTION AND PURPOSE OF  ☐ Die Technology ☐ Wafer Fabrication Process ☐ Assembly Process ☐ Equipment ☐ Material ☐ Testing ☐ Manufacturing Site ☐ Data Sheet ☐ Other	This notification is to ad classification to MSL 1.	The affected producting to JEDEC J-ST ak reflow temperature qual data and the ex-	ets will be shipped D-020. There is note.	o change to the assembly
RELIABILITY/QUALIFICATION SUM Moisture sensitive classification qual report CUSTOMER ACKNOWLEDGMENT IDT records indicate that you require with to grant approval or request additional in it will be assumed that this change is according to the earlier version has been depleted.	OF RECEIPT:  THE OF RECEIPT:  The option of this conformation. If IDT does not be eptable.  The option of this conformation of this conformation of this conformation of this conformation of the option of the opti	not receive acknowle	dgement within 3	0 days of this notice
Customer:		Approval for	r shipments pr	ior to effective date.
Name/Date:	E-1	Mail Address:		
Title:	Ph	one#/Fax#:		
CUSTOMER COMMENTS:				
IDT ACKNOWLEDGMENT OF REC	CEIPT:			
RECD. BY:		DATE:		

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

## PRODUCT/PROCESS CHANGE NOTICE (PCN)

#### ATTACHMENT I - PCN #: TB1507-01

**PCN Type:** Change in Moisture Sensitivity Level

**Data Sheet Change:** There is change in Moisture Sensitive Level (MSL) from 3 to 1.

**Detail of Change:** This notification is to advise our customers that IDT is converting moisture sensitivity classification to

MSL 1.

The affected products will be shipped without dry pack and labeled as MSL 1 according to JEDEC J-STD-020. There is no change to the assembly material sets and the peak reflow temperature. Peak

reflow temperature remains 260°C.

Refer to examples of moisture sensitive labels as shown below.

**Qualification Information and Qualification Data:** 

Qual Plan & Results: Tests are in accordance with JEDEC47 recommended tests.

Qualification Vehicle: VFQFPN-16

			Test Results (SS / Rej)		
Test Description	Test Method	Lot 1	Lot 2	Lot 3	
* HAST - biased (130 °C/85% RH, 100 Hrs)	JESD22-A110	45/0	45/0	45/0	
* Temperature Cycle / Condition B (-55 °C to +125 °C, 700 Cyc)	JESD22-A104	45/0	45/0	45/0	
High Temp. Storage Test (150 °C, 1000 Hrs)	JESD22-A103	77/0	77/0	77/0	
Moisture Sensitivity Level (MSL 1, 260°C)	J-STD-20	45/0	45/0	45/0	

<sup>\*</sup> Test requires moisture pre-conditioning sequence per JESD22-A113 prior to stress test

#### From: MSL 3 Moisture Sensitive Label



#### CAUTION This Bag Contains MOISTURE-SENSITIVE DEVICES



- Calculated shelf life in sealed bag:
   12 months at < 40°C and < 90% relative humidity (RH)
- Peak package body temperature: 260°C
- After bag is opened, devices that will be subjected to reflow solder or other high temperature process must a) Mounted within 168 hours of factory conditions <= 30°C/60% RH or b) Stored per J-STD-033
- Devices required bake, before mounting if:
   a) Humidity indicator card reads >10% for level 2a-5a devices or >60% for level 2 devices when read at 23 +/-5 deg C
- b) 3a or 3b are not met If baking is required, refer to IPC/JEDEC J-STD-033 for bake procedure

Bag Seal Date: 07/31/15 Note: Level and body temperature defined by IPC/JEDEC J-STD-020.



#### To: MSL 1 Non-Moisture Sensitive Label

#### NOT MOISTURE SENSITIVE



These Devices do not require special storage conditions provided:

- 1. They are maintained at conditions equal to or less than 30°C/85 % RH, and
- 2. They are solder reflowed at a peak body temperature which does not exceed

Note: Level and body temperature defined by IPC/JEDEC



Note: There is no change to the peak reflow temperature of the affected products.



# PRODUCT/PROCESS CHANGE NOTICE (PCN)

## ATTACHMENT II - PCN #: TB1507-01

### **Affected Part Numbers**

Part Number	Part Number	Part Number	Part Number
F2250NLGI	F2258NLGI	F2255NLGI8	F2250NLGK
F2258NLGK	F2255NLGK8	F2255NLGI	F2250NLGI8
F2258NLGI8	F2255NLGK	F2250NLGK8	F2258NLGK8