



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

## PRODUCT/PROCESS CHANGE NOTICE (PCN)

PCN #: <b>A1709-03</b>	DATE: <b>22-Sep-2017</b>	MEANS OF DISTINGUISHING CHANGED DEVICES:  <input type="checkbox"/> Product Mark <input checked="" type="checkbox"/> Back Mark <input type="checkbox"/> Date Code <input type="checkbox"/> Other  Lot # will have: "RC" prefix for ASECL, Taiwan
Product Affected: F159VNLGI (8) F159VNLGN (8)		
Date Effective: <b>22-Dec-2017</b>		

Contact: IDT PCN DESK	Attachment: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
E-mail: <a href="mailto:pcndesk@idt.com">pcndesk@idt.com</a>	Samples: Please contact your local sales representative for sample request.

### DESCRIPTION AND PURPOSE OF CHANGE:

- |                                                        |                                                                                                                                                                          |
|--------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> Die Technology                | This notification is to advise our customers that IDT is adding ASECL, Taiwan as an alternate assembly facility for parts that are currently assembled at UTL, Thailand. |
| <input type="checkbox"/> Wafer Fabrication Process     |                                                                                                                                                                          |
| <input type="checkbox"/> Assembly Process              | There is no change to the moisture performance.                                                                                                                          |
| <input type="checkbox"/> Equipment                     |                                                                                                                                                                          |
| <input type="checkbox"/> Material                      | Attachment I details the qualification results.                                                                                                                          |
| <input type="checkbox"/> Testing                       |                                                                                                                                                                          |
| <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"/> <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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### ATTACHMENT I - PCN # : A1709-03

**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 ASECL, Taiwan as an alternate assembly facility for parts that are currently assembled at UTL, Thailand.

The material set details of the current and alternate assembly location is as shown in Table 1.

There is no change to the moisture performance.

Table 1: Assembly Material Sets for The Existing and Alternate Assembly Location

	Existing Assembly (UTL, Thailand)	Alternate Assembly (ASECL, Taiwan)
Die Attach	8600	EN4900G
Bond Wire	Copper Wire	Copper Wire
Mold Compound	G700LTD	G700LA



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### ATTACHMENT I - PCN # : A1709-03

#### Qualification Information and Qualification Data:

**Affected Packages:** VFQFPN-68

**Assembly Material:** Shown on page 2 of this attachment.

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

**Qualification Vehicle:** VFQFPN-68

Test Description	Test Method	Test Results (Rej / SS)		
		Lot 1	Lot 2	Lot 3
* Temperature Cycling (-55°C to 125°C, 700 cycles)	JESD22-A104	0/25	0/25	0/25
* HAST - biased (110 °C/85% RH, 264 Hrs)	JESD22-A110	0/25	0/25	0/25
High Temperature Storage Bake (150°C, 1000 Hrs)	JESD22-A103	0/25	0/25	0/25
Ball Shear Test	JESD22-B116	0/5	0/5	0/5
Bond Pull Test	MIL-STD-883 (Method 2011)	0/5	0/5	0/5
X Ray	IDT Spec. MAC- 3012	0/45	0/45	0/45
Moisture Sensitivity Level, MSL	J-STD-20 / MSL 3, 260 °C	0/25	0/25	-

\* Tests were subjected to Preconditioning per JESD22-A113 prior to stress test