



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

## PRODUCT/PROCESS CHANGE NOTICE (PCN)

PCN #: <b>MM1809-01</b> Date: September 26, 2018 Product Affected: 9FGV1006AnnnLTGI (8) 9FGV1006Q5nnLTGI (8) (Refer Attachment II for the affected part#) Date Effective: December 26, 2018	<b>MEANS OF DISTINGUISHING CHANGED DEVICES:</b> <input checked="" type="checkbox"/> Product Mark      Change in the top mark and orderable part# <input type="checkbox"/> Back Mark <input type="checkbox"/> Date Code <input type="checkbox"/> Other
---	---

Contact: Victor Abarca  E-mail: <a href="mailto:victor.abarca@idt.com">victor.abarca@idt.com</a>	Attachment: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  Samples: Samples are available now.
--	--

**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 type="checkbox"/> Manufacturing Site <input type="checkbox"/> Data Sheet <input checked="" type="checkbox"/> Other - Die Revision Change	<p>This notice is to advise our customers that a quality improvement was made to the part numbers as listed in Attachment I to resolve the issue of OUT0 to stop for approximately 200 to 270uSec when turning Spread on or Spread off.</p> <p>There is no change to the die/package technology or manufacturing. New orderable part numbers are available to distinguish this change. The previous part numbers will not be available after the effective date of this notice. For further information please contact your local IDT sales and distribution channels.</p>
--	--

**RELIABILITY/QUALIFICATION SUMMARY:**

There is no change in the die technology or process technology of this device. There is no change to AC or DC performance of this device. Quality of this device across temperature and voltage has been improved. The design improvement has been extensively validated through both ATE and bench testing.

**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. The earlier version will be discontinued after the effective date.

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: \_\_\_\_\_



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

## PRODUCT/PROCESS CHANGE NOTICE (PCN)

### ATTACHMENT I - PCN # : MM1809-01

**PCN Type:** Die revision change

**Data Sheet Change:** Yes

**Details Of Change:**

This notice is to advise our customers that a quality improvement was made to the part numbers as listed in Attachment I to resolve the issue of OUT0 to stop for approximately 200 to 270uSec when turning Spread on or Spread off.

There is no change to the die/package technology or manufacturing. New orderable part numbers are available to distinguish this change. The previous part numbers will not be available after the effective date of this notice. For further information please contact your local IDT sales and distribution channels.

Current Orderable Part	New Orderable Part
9FGV1006AnnnLTGI	9FGV1006BnnnLTGI
9FGV1006AnnnLTGI8	9FGV1006BnnnLTGI8
9FGV1006Q5aaLTGI	9FGV1006BQ5aaLTGI
9FGV1006Q5aaLTGI8	9FGV1006BQ5aaLTGI8

"G" indicates RoHS 6.6 compliance.

"nnn" are decimal digits indicating a specific configuration.

"aa" are alphanumeric digits indicating a specific configuration.

"Q5" indicates internal 50MHz crystal.



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

## PRODUCT/PROCESS CHANGE NOTICE (PCN)

### ATTACHMENT I - PCN # : MM1809-01

9FGV1006A to 9FGV1006B.docx

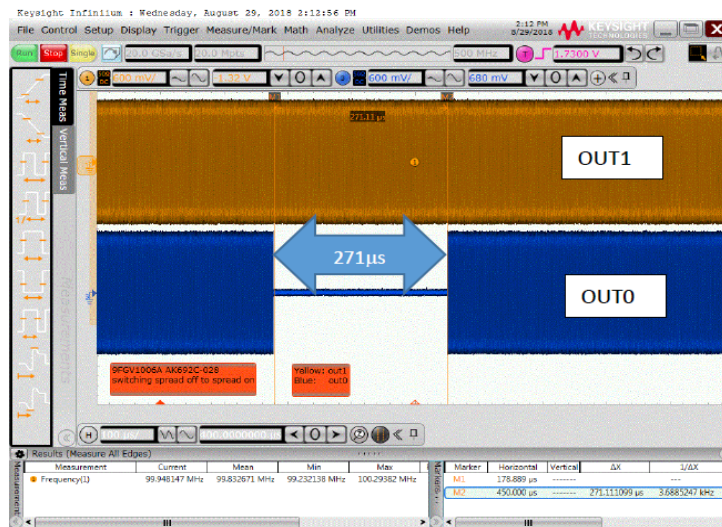


Figure 1 9FGV1006A/9FGV1006Q5 Spread Off to Spread On Transition

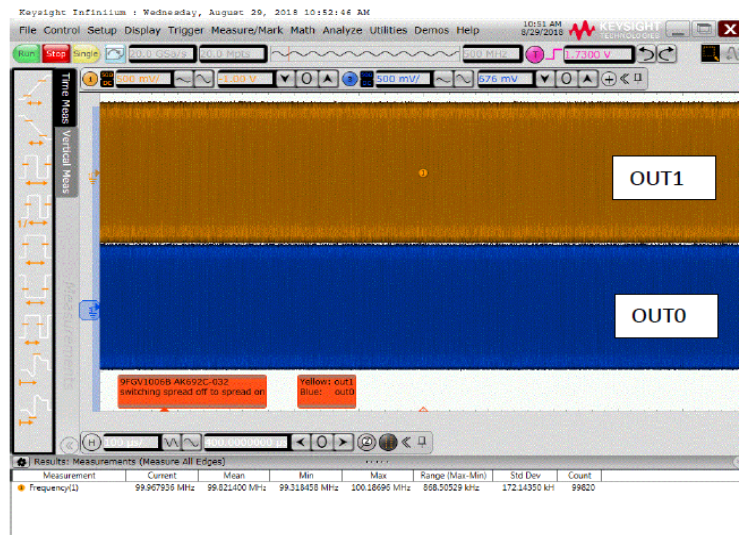


Figure 2 9FGV1006B/9FGV1006BQ Spread Off to Spread On Transition



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

## PRODUCT/PROCESS CHANGE NOTICE (PCN)

### ATTACHMENT I - PCN # : MM1809-01

9FGV1006A to 9FGV1006B.docx

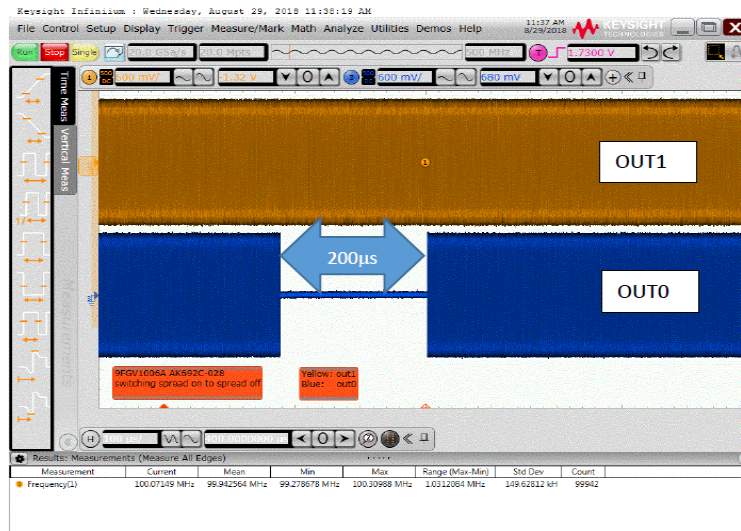


Figure 3 9FGV1006A/9FGV1006Q5 Spread On to Spread Off Transition

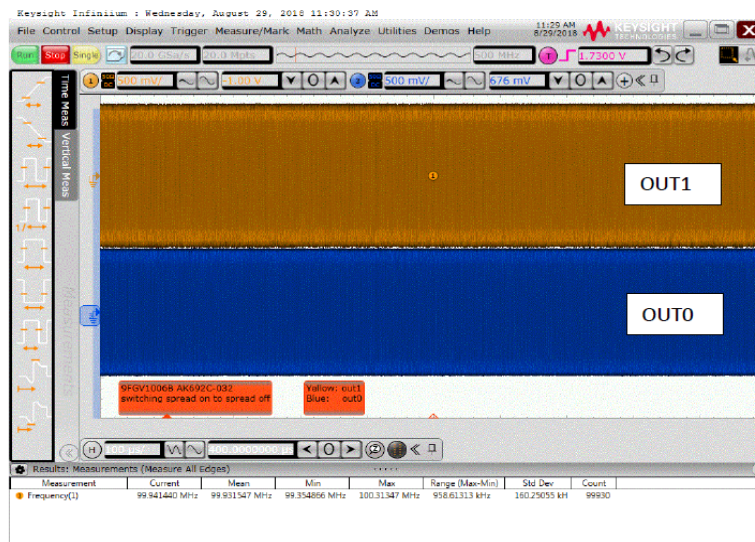


Figure 4 9FGV1006B/9FGV1006BQ Spread On to Spread Off Transition



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

## PRODUCT/PROCESS CHANGE NOTICE (PCN)

### ATTACHMENT II - PCN # : MM1809-01

#### Affected Part Numbers

Part Number	Part Number	Part Number	Part Number
9FGV1006A000LTGI	9FGV1006A110LTGI	9FGV1006A202LTGI8	9FGV1006Q507LTGI8
9FGV1006A000LTGI8	9FGV1006A110LTGI8	9FGV1006AROOTLTGI	9FGV1006Q508LTGI
9FGV1006A001LTGI	9FGV1006A111LTGI	9FGV1006AROOTLTGI8	9FGV1006Q508LTGI8
9FGV1006A001LTGI8	9FGV1006A111LTGI8	9FGV1006Q500LTGI	9FGV1006Q550LTGI
9FGV1006A002LTGI	9FGV1006A115LTGI	9FGV1006Q500LTGI8	9FGV1006Q550LTGI8
9FGV1006A002LTGI8	9FGV1006A115LTGI8	9FGV1006Q505LTGI	9FGV1006Q551LTGI
9FGV1006A003LTGI	9FGV1006A116LTGI	9FGV1006Q505LTGI8	9FGV1006Q551LTGI8
9FGV1006A003LTGI8	9FGV1006A201LTGI	9FGV1006Q506LTGI	9FGV1006Q5ROOLTGI8
9FGV1006A004LTGI	9FGV1006A201LTGI8	9FGV1006Q506LTGI8	9FGV1006Q5ROOTLTGI
9FGV1006A004LTGI8	9FGV1006A202LTGI	9FGV1006Q507LTGI	EVK9FGV1006Q5