



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

## PRODUCT/PROCESS CHANGE NOTICE (PCN)

|   |                     |  |
|---|---------------------|--|
| PCN #: <b>N1807-01</b>  | Date: July 16, 2018 | <b>MEANS OF DISTINGUISHING CHANGED DEVICES:</b>  |
| Product Affected: 8T49N240-xxx FemtoClockNG Universal<br>8T49N242-xxx FemtoClockNG Universal<br>(Refer Attachment I for the affected part#) |                     | <input checked="" type="checkbox"/> Product Mark    YR die step on mark for 8T49N240-xxx |
| Date Effective: August 16, 2018   |                     | <input type="checkbox"/> Back Mark        YC die step on mark for 8T49N242-xxx           |
|   |                     | <input type="checkbox"/> Date Code   |
|   |                     | <input type="checkbox"/> Other   |

|  |   |
|--|---|
| Contact: Peter Jenkins   | Attachment: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| E-mail: <a href="mailto:peter.jenkins@idt.com">peter.jenkins@idt.com</a> | Samples: Samples are available now.   |

**DESCRIPTION AND PURPOSE OF CHANGE:**

|   |   |
|---|---|
| <input type="checkbox"/> Die Technology                         | This notice is to advise our customers that a quality improvement was made to the part numbers as listed in Attachment I.   |
| <input type="checkbox"/> Wafer Fabrication Process              |   |
| <input type="checkbox"/> Assembly Process                       |   |
| <input type="checkbox"/> Equipment                              | There is no change to the orderable part number or datasheet specifications.  |
| <input type="checkbox"/> Material                               |   |
| <input type="checkbox"/> Testing                                | The change resolves a timing marginality within the feedback divider circuitry where under failing conditions the fractional feedback divider would temporarily latch an incorrect value. |
| <input type="checkbox"/> Manufacturing Site                     |   |
| <input type="checkbox"/> Data Sheet                             |   |
| <input checked="" type="checkbox"/> Other - Die Revision Change | The current version of this device will be discontinued as of the effective date on this notice. For further information please contact your local IDT sales and distribution channels.   |

**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>Approval for shipments prior to effective date.</b> |
| Name/Date: _____ | E-Mail Address: _____   |
| Title: _____     | Phone # /Fax #: _____   |

**CUSTOMER COMMENTS:** \_\_\_\_\_

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**IDT ACKNOWLEDGMENT OF RECEIPT:**

RECD. BY: \_\_\_\_\_ DATE: \_\_\_\_\_



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## PRODUCT/PROCESS CHANGE NOTICE (PCN)

### ATTACHMENT I - PCN # : N1807-01

#### Affected Part Numbers

| Part Number        | Part Number       | Part Number       | Part Number       |
|--------------------|-------------------|-------------------|-------------------|
| 8T49N242-030NLGI   | 8T49N240-998NLGI  | 8T49N240-018NLGI8 | 8T49N240-043NLGI# |
| 8T49N242-016NLGI8  | 8T49N242-993NLGI8 | 8T49N240-018NLGI  | 8T49N240-043NLGI  |
| 8T49N242-016NLGI   | 8T49N242-993NLGI  | 8T49N240-017NLGI8 | 8T49N240-042NLGI8 |
| 8T49N242-015NLGI8  | 8T49N242-630NLGI8 | 8T49N240-017NLGI  | 8T49N240-042NLGI  |
| 8T49N242-015NLGI   | 8T49N242-630NLGI  | 8T49N240-015NLGI8 | 8T49N240-041NLGI8 |
| 8T49N242-014NLGI8  | 8T49N242-629NLGI8 | 8T49N240-015NLGI  | 8T49N240-041NLGI  |
| 8T49N242-014NLGI   | 8T49N242-629NLGI  | 8T49N240-013NLGI8 | 8T49N240-039NLGI8 |
| 8T49N242-013NLGI8  | 8T49N242-628NLGI8 | 8T49N240-013NLGI# | 8T49N240-039NLGI  |
| 8T49N242-013NLGI   | 8T49N242-628NLGI  | 8T49N240-019NLGI8 | 8T49N240-038NLGI8 |
| 8T49N242-011NLGI8  | 8T49N242-627NLGI8 | 8T49N240-020NLGI  | 8T49N240-043NLGI8 |
| 8T49N242-017NLGI   | 8T49N242-997NLGI  | 8T49N240-020NLGI8 | 8T49N240-045NLGI  |
| 8T49N242-017NLGI8  | 8T49N242-997NLGI8 | 8T49N240-025NLGI  | 8T49N240-045NLGI# |
| 8T49N242-024NLGI   | 8T49N242-998NLGI  | 8T49N240-024NLGI8 | 8T49N240-994NLGI8 |
| 8T49N242-029NLGI8  | 8T49N242-999NLGI8 | 8T49N240-024NLGI  | 8T49N240-994NLGI  |
| 8T49N242-029NLGI   | 8T49N242-999NLGI# | 8T49N240-023NLGI8 | 8T49N240-991NLGI8 |
| 8T49N242-028NLGI8  | 8T49N242-999NLGI  | 8T49N240-023NLGI  | 8T49N240-991NLGI  |
| 8T49N242-028NLGI   | 8T49N242-998NLGI8 | 8T49N240-022NLGI8 | 8T49N240-990NLGI8 |
| 8T49N242-027NLGI8  | 8T49N242-998NLGI# | 8T49N240-022NLGI  | 8T49N240-990NLGI  |
| 8T49N242-027NLGI   | 8T49N242-627NLGI  | 8T49N240-021NLGI8 | 8T49N240-984NLGI8 |
| 8T49N242-025NLGI8  | 8T49N242-625NLGI8 | 8T49N240-021NLGI  | 8T49N240-984NLGI  |
| 8T49N242-025NLGI   | 8T49N242-607NLGI  | 8T49N240-013NLGI  | 8T49N240-045NLGI8 |
| 8T49N242-024NLGI8  | 8T49N242-503NLGI8 | 8T49N240-012NLGI8 | 8T49N240-038NLGI  |
| 8T49N242-011NLGI   | 8T49N242-503NLGI  | 8T49N240-005NLGI  | 8T49N240-036NLGI8 |
| 8T49N242-010NLGI8  | 8T49N242-502NLGI8 | 8T49N240-004NLGI8 | 8T49N240-030NLGI8 |
| 8T49N242-002NLGI   | 8T49N242-502NLGI  | 8T49N240-004NLGI# | 8T49N240-030NLGI  |
| 8T49N242-001NLGI8  | 8T49N242-501NLGI8 | 8T49N240-004NLGI  | 8T49N240-029NLGI8 |
| 8T49N242-001NLGI   | 8T49N242-501NLGI  | 8T49N240-003NLGI8 | 8T49N240-029NLGI  |
| 8T49N240NLGI8      | 8T49N242-032NLGI8 | 8T49N240-003NLGI  | 8T49N240-028NLGI8 |
| 8T49N240NLGI       | 8T49N242-032NLGI  | 8T49N240-002NLGI8 | 8T49N240-028NLGI  |
| 8T49N240-EVK       | 8T49N242-607NLGI8 | 8T49N240-002NLGI  | 8T49N240-027NLGI8 |
| 8T49N240-DEMONLGI8 | 8T49N242-610NLGI  | 8T49N240-001NLGI8 | 8T49N240-027NLGI  |
| 8T49N240-DEMONLGI  | 8T49N242-610NLGI8 | 8T49N240-005NLGI8 | 8T49N240-026NLGI8 |
| 8T49N240-998NLGI8  | 8T49N242-625NLGI  | 8T49N240-006NLGI  | 8T49N240-031NLGI  |
| 8T49N242-002NLGI8  | 8T49N242-621NLGI8 | 8T49N240-006NLGI8 | 8T49N240-031NLGI8 |
| 8T49N242-004NLGI   | 8T49N242-621NLGI  | 8T49N240-012NLGI  | 8T49N240-032NLGI  |
| 8T49N242-004NLGI8  | 8T49N242-620NLGI8 | 8T49N240-011NLGI8 | 8T49N240-036NLGI  |
| 8T49N242-010NLGI   | 8T49N242-620NLGI  | 8T49N240-011NLGI  | 8T49N240-035NLGI8 |
| 8T49N242-009NLGI8  | 8T49N242-617NLGI8 | 8T49N240-010NLGI8 | 8T49N240-035NLGI  |
| 8T49N242-009NLGI   | 8T49N242-617NLGI  | 8T49N240-010NLGI  | 8T49N240-034NLGI8 |
| 8T49N242-008NLGI8  | 8T49N242-614NLGI8 | 8T49N240-009NLGI8 | 8T49N240-034NLGI  |
| 8T49N242-008NLGI   | 8T49N242-614NLGI  | 8T49N240-009NLGI  | 8T49N240-033NLGI8 |
| 8T49N242-007NLGI8  | 8T49N242-030NLGI8 | 8T49N240-007NLGI8 | 8T49N240-033NLGI# |
| 8T49N242-007NLGI   | 8T49N240-997NLGI8 | 8T49N240-007NLGI  | 8T49N240-033NLGI  |
| 8T49N242-006NLGI8  | 8T49N240-025NLGI8 | 8T49N240-001NLGI  | 8T49N240-032NLGI8 |
| 8T49N242-006NLGI   | 8T49N240-019NLGI  | 8T49N240-997NLGI  | 8T49N240-026NLGI  |