



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

PRODUCT/PROCESS CHANGE NOTICE (PCN)

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|--|---|
| PCN #: A0705-02 DATE: 7/26/2007 Product Affected: 17mm x 17mm CABGA-256, 7mm x 7mm FPBGA-48, 13mm x 15mm FPBGA-165 (See Attachment II for affected part numbers) Date Effective: 10/26/2007 | MEANS OF DISTINGUISHING CHANGED DEVICES: <input type="checkbox"/> Product Mark <input type="checkbox"/> Back Mark <input checked="" type="checkbox"/> Date Code 0740 onwards <input type="checkbox"/> Other |
|--|---|

| | |
|---|---|
| Contact: Geoffrey Cortes Title: Product Quality 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. |
|---|---|

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 checked="" type="checkbox"/> Material <input type="checkbox"/> Testing <input type="checkbox"/> Manufacturing Site <input type="checkbox"/> Data Sheet <input type="checkbox"/> Other | <p>This notification is to inform our customers that IDT is converting to new mold compound GE100LFCS (standard) and GE100LFCS-V (low alpha) as a result of the existing mold compound G770S (standard) and G770SF (low alpha) are being obsolete.</p> <p>There is no change to the moisture performance of these packages.</p> <p>Please see attachment for qualification data and affected part number list.</p> |
|--|--|

RELIABILITY/QUALIFICATION SUMMARY:

Refer to qualification results 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"/> <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 I - PCN #: A0705-02

PCN Type: Assembly Material Change
Data Sheet Change: None
Detail Of Change: This notification is to inform our customers that IDT is converting to new mold compound GE100LFCS (standard) and GE100LFCS-V (low alpha) as a result of the existing mold compound G770S (standard) and G770SF (low alpha) are being obsoleted.

There is no change in the moisture sensitivity level (MSL).

Attachment I details the qualification results for this change and Attachment II shows the affected part numbers.

| Description | Affected Package Types | Material | |
|------------------------|--|---|--|
| | | Old | New |
| Mold Compound Material | 17mm x 17mm CABGA-256, 7mm x 7mm FPBGA-48, 13mm x 15mm FPBGA-165 | G770S (standard) and G770SF (low alpha) | GE100LFCS (standard) and GE100LFCS-V (low alpha) |

Sample Availability: Samples are not built ahead of the change and are limited to selective devices. Please contact your local IDT sales representative for sample request and availability.



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ATTACHMENT I - PCN #: A0705-02

Qualification Plan #: P06-09-03R1

Test Vehicle: 17mm x 17mm CABGA-256 (3 lots)

Qualification Test Plan and Results:

| Test Description | Test Method | Test Results (SS/Rej) | | |
|--|--------------|-----------------------|-------|-------|
| | | Lot 1 | Lot 2 | Lot 3 |
| * Temperature Cycling (Cond B, 1000 cycles) | JESD22-A104B | 45/0 | 45/0 | 45/0 |
| * HAST (130°C, 85% RH, 100 hours) | JESD22-A110B | 44/0 | 45/0 | 45/0 |
| High Temperature Stabilization Bake (150 °C, 1000 hours) | JESD22-A103B | 77/1** | 77/0 | N/A |
| Moisture Sensitivity Classification, L3 | J-STD-020C | 45/0 | 45/0 | N/A |

Note: * Test require moisture pre-conditioning sequence per JESD22-A113.

** 1 unit functional failure due to die defect, this is unrelated to Assembly packaging



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PRODUCT/PROCESS CHANGE NOTICE (PCN)

ATTACHMENT II - PCN # : A0705-02

Affected Part Number

| Part Number | Part Number | Part Number | Part Number |
|--------------------|---------------------|---------------------|---------------------|
| IDT70T3539MS133BC | IDT71P72204S250BQ | IDT71P74204S167BQ | IDT71V016SA12BFI |
| IDT70T3539MS133BCG | IDT71P72604S133BQ | IDT71P74204S200BQ | IDT71V016SA15BF |
| IDT70T3539MS133BCI | IDT71P72604S167BQ | IDT71P74204S250BQ | IDT71V016SA15BF1 |
| IDT70T3539MS166BC | IDT71P72604S167BQG | IDT71P74204S300BQ | IDT71V016SA15BFG |
| IDT70T3539MS166BCG | IDT71P72604S167BQI | IDT71P74204S333BQ | IDT71V016SA15BFGI |
| IDT70T653MS10BC | IDT71P72604S200BQ | IDT71P74604S167BQ | IDT71V016SA15BFI |
| IDT70T653MS10BCG | IDT71P72604S200BQG | IDT71P74604S167BQG | IDT71V016SA20BF |
| IDT70T653MS10BCI | IDT71P72604S200BQI | IDT71P74604S167BQGI | IDT71V016SA20BF1 |
| IDT70T653MS12BC | IDT71P72604S250BQ | IDT71P74604S200BQ | IDT71V016SA20BFG |
| IDT70T653MS12BCG | IDT71P72604S250BQG | IDT71P74604S200BQG | IDT71V016SA20BFGI |
| IDT70T653MS12BCGI | IDT71P72604S250BQI | IDT71P74604S250BQ | IDT71V016SA20BFI |
| IDT70T653MS12BCI | IDT71P72804S133BQ | IDT71P74604S250BQG | IDT71V2546S100BQ |
| IDT70T653MS15BC | IDT71P72804S167BQ | IDT71P74604S300BQ | IDT71V2546S100BQI |
| IDT71P71104S167BQ | IDT71P72804S167BQG | IDT71P74604S333BQ | IDT71V2546S133BQ |
| IDT71P71104S200BQ | IDT71P72804S167BQGI | IDT71P74804S133BQ | IDT71V2546S133BQI |
| IDT71P71104S250BQ | IDT71P72804S167BQI | IDT71P74804S167BQ | IDT71V2546S150BQ |
| IDT71P71104S300BQ | IDT71P72804S200BQ | IDT71P74804S167BQG | IDT71V2546SA100BQ |
| IDT71P71104S333BQ | IDT71P72804S200BQG | IDT71P74804S200BQ | IDT71V2546SA100BQI |
| IDT71P71204S167BQ | IDT71P72804S250BQ | IDT71P74804S200BQG | IDT71V2546SA133BQ |
| IDT71P71204S200BQ | IDT71P72804S250BQG | IDT71P74804S250BQ | IDT71V2546SA133BQI |
| IDT71P71204S250BQ | IDT71P73104S167BQ | IDT71P74804S250BQG | IDT71V2546SA150BQ |
| IDT71P71204S300BQ | IDT71P73104S200BQ | IDT71P74804S300BQ | IDT71V2546SA150BQI |
| IDT71P71204S333BQ | IDT71P73104S250BQ | IDT71P74804S333BQ | IDT71V2548S133BQ |
| IDT71P71604S167BQ | IDT71P73104S300BQ | IDT71P79804S167BQI | IDT71V2548SA100BQ |
| IDT71P71604S167BQG | IDT71P73104S333BQ | IDT71P79804S250BQ | IDT71V2548SA100BQI |
| IDT71P71604S200BQ | IDT71P73204S167BQ | IDT71P79804S250BQG | IDT71V2548SA133BQ |
| IDT71P71604S200BQG | IDT71P73204S200BQ | IDT71P79804S250BQGI | IDT71V2548SA133BQI |
| IDT71P71604S250BQ | IDT71P73204S250BQ | IDT71P79804S250BQI | IDT71V2548SA150BQ |
| IDT71P71604S250BQG | IDT71P73204S300BQ | IDT71P79804S267BQ | IDT71V2548SA150BQI |
| IDT71P71604S300BQ | IDT71P73204S333BQ | IDT71P79804S267BQI | IDT71V2556S100BQ |
| IDT71P71604S333BQ | IDT71P73604S167BQ | IDT71T016SA12BF | IDT71V2556S100BQI |
| IDT71P71804S167BQ | IDT71P73604S200BQ | IDT71T016SA12BFI | IDT71V2556S133BQ |
| IDT71P71804S167BQG | IDT71P73604S250BQ | IDT71T016SA15BF | IDT71V2556S133BQI |
| IDT71P71804S200BQ | IDT71P73604S300BQ | IDT71T016SA15BFI | IDT71V2556S150BQ |
| IDT71P71804S200BQG | IDT71P73604S333BQ | IDT71T016SA20BF | IDT71V2556S166BQ |
| IDT71P71804S200BQI | IDT71P73804S167BQ | IDT71T016SA20BFI | IDT71V2556S200BQ |
| IDT71P71804S250BQ | IDT71P73804S200BQ | IDT71V016SA10BF | IDT71V2556SA100BQ |
| IDT71P71804S250BQG | IDT71P73804S250BQ | IDT71V016SA10BFG | IDT71V2556SA100BQI |
| IDT71P71804S300BQ | IDT71P73804S300BQ | IDT71V016SA10BFGI | IDT71V2556SA133BQ |
| IDT71P71804S333BQ | IDT71P73804S333BQ | IDT71V016SA10BFI | IDT71V2556SA133BQG |
| IDT71P72104S167BQ | IDT71P74104S167BQ | IDT71V016SA12BF | IDT71V2556SA133BQGI |
| IDT71P72104S200BQ | IDT71P74104S200BQ | IDT71V016SA12BF1 | IDT71V2556SA133BQI |
| IDT71P72104S250BQ | IDT71P74104S250BQ | IDT71V016SA12BFG | IDT71V2556SA150BQ |
| IDT71P72204S167BQ | IDT71P74104S300BQ | IDT71V016SA12BFG1 | IDT71V2556SA166BQ |
| IDT71P72204S200BQ | IDT71P74104S333BQ | IDT71V016SA12BFGI | IDT71V2556SA166BQG |

Notes: For T & R (shipping method) "8" is added to the IDT part# suffix



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ATTACHMENT II - PCN # : A0705-02

Affected Part Number

| Part Number | Part Number | Part Number | Part Number |
|----------------------|---------------------|---------------------|----------------------|
| IDT71V2556SA166BQGI | IDT71V25781SA183BQ | IDT71V3556SA166BQG | IDT71V3559SA75BQG |
| IDT71V2556SA200BQ | IDT71V25781SA183BQI | IDT71V3556SA166BQGI | IDT71V3559SA75BQGI |
| IDT71V2556SA200BQI | IDT71V25781SA200BQ | IDT71V3556SA200BQ | IDT71V3559SA75BQI |
| IDT71V2557S75BQ | IDT71V25781SA200BQI | IDT71V3556SA200BQG | IDT71V3559SA80BQ |
| IDT71V2557S75BQG | IDT71V2578S133BQ | IDT71V3557S75BQ | IDT71V3559SA80BQG |
| IDT71V2557S80BQ | IDT71V2578S133BQGI | IDT71V3557S80BQ | IDT71V3559SA80BQGI |
| IDT71V2557S80BQG | IDT71V2578S133BQI | IDT71V3557S80BQI | IDT71V3559SA85BQ |
| IDT71V2557S80BQI | IDT71V2578S150BQ | IDT71V3557S85BQ | IDT71V3559SA85BQG |
| IDT71V2557S85BQ | IDT71V2578S150BQGI | IDT71V3557S85BQI | IDT71V3559SA85BQGI |
| IDT71V2557S85BQI | IDT71V2578S150BQI | IDT71V3557SA75BQ | IDT71V3559SA85BQI |
| IDT71V2557SA75BQ | IDT71V2578SA133BQGI | IDT71V3557SA75BQG | IDT71V35761S166BQ |
| IDT71V2557SA75BQI | IDT71V3548S100BQ | IDT71V3557SA75BQGI | IDT71V35761S166BQG |
| IDT71V2557SA80BQ | IDT71V3548S100BQI | IDT71V3557SA75BQI | IDT71V35761S166BQGI |
| IDT71V2557SA80BQI | IDT71V3548S133BQ | IDT71V3557SA80BQ | IDT71V35761S166BQI |
| IDT71V2557SA85BQ | IDT71V3548S133BQI | IDT71V3557SA80BQG | IDT71V35761S183BQ |
| IDT71V2557SA85BQI | IDT71V3548SA100BQ | IDT71V3557SA80BQGI | IDT71V35761S183BQG |
| IDT71V2558S100BQ | IDT71V3548SA100BQG | IDT71V3557SA80BQI | IDT71V35761S183BQGI |
| IDT71V2558S100BQI | IDT71V3548SA100BQGI | IDT71V3557SA85BQ | IDT71V35761S183BQI |
| IDT71V2558S133BQ | IDT71V3548SA133BQ | IDT71V3557SA85BQG | IDT71V35761S200BQ |
| IDT71V2558S133BQI | IDT71V3548SA133BQG | IDT71V3557SA85BQGI | IDT71V35761S200BQG |
| IDT71V2559S75BQ | IDT71V3548SA133BQGI | IDT71V3557SA85BQI | IDT71V35761S200BQGI |
| IDT71V2559S80BQ | IDT71V3556S100BQ | IDT71V3558S100BQ | IDT71V35761S200BQI |
| IDT71V2559S85BQ | IDT71V3556S100BQG | IDT71V3558S100BQI | IDT71V35761SA166BQ |
| IDT71V2559SA75BQ | IDT71V3556S100BQGI | IDT71V3558S133BQ | IDT71V35761SA166BQG |
| IDT71V2559SA80BQ | IDT71V3556S100BQI | IDT71V3558S200BQ | IDT71V35761SA166BQGI |
| IDT71V2559SA85BQ | IDT71V3556S133BQ | IDT71V3558S200BQI | IDT71V35761SA166BQI |
| IDT71V25761SA166BQ | IDT71V3556S133BQG | IDT71V3558SA100BQ | IDT71V35761SA183BQ |
| IDT71V25761SA166BQGI | IDT71V3556S133BQGI | IDT71V3558SA100BQG | IDT71V35761SA183BQG |
| IDT71V25761SA166BQI | IDT71V3556S133BQI | IDT71V3558SA100BQGI | IDT71V35761SA183BQI |
| IDT71V25761SA183BQ | IDT71V3556S150BQ | IDT71V3558SA133BQ | IDT71V35761SA200BQ |
| IDT71V25761SA183BQI | IDT71V3556S166BQ | IDT71V3558SA133BQG | IDT71V35761SA200BQG |
| IDT71V25761SA200BQ | IDT71V3556S166BQG | IDT71V3558SA133BQGI | IDT71V35761SA200BQGI |
| IDT71V25761SA200BQI | IDT71V3556S166BQGI | IDT71V3558SA166BQG | IDT71V35761SA200BQI |
| IDT71V2576S133BQ | IDT71V3556S200BQ | IDT71V3558SA166BQGI | IDT71V3576S133BQ |
| IDT71V2576S133BQI | IDT71V3556S200BQG | IDT71V3558SA200BQG | IDT71V3576S133BQG |
| IDT71V2576S150BQ | IDT71V3556SA100BQ | IDT71V3558SA200BQGI | IDT71V3576S133BQGI |
| IDT71V2576S150BQI | IDT71V3556SA100BQG | IDT71V3559S75BQ | IDT71V3576S133BQI |
| IDT71V2577S75BQ | IDT71V3556SA100BQGI | IDT71V3559S75BQI | IDT71V3576S150BQ |
| IDT71V2577S75BQI | IDT71V3556SA100BQI | IDT71V3559S80BQ | IDT71V3576S150BQG |
| IDT71V2577S80BQ | IDT71V3556SA133BQ | IDT71V3559S80BQG | IDT71V3576S150BQGI |
| IDT71V2577S80BQI | IDT71V3556SA133BQG | IDT71V3559S80BQI | IDT71V3576S150BQI |
| IDT71V2577S85BQ | IDT71V3556SA133BQGI | IDT71V3559S85BQ | IDT71V3576SA133BQ |
| IDT71V2577S85BQI | IDT71V3556SA133BQI | IDT71V3559S85BQG | IDT71V3576SA133BQG |
| IDT71V25781SA166BQ | IDT71V3556SA150BQ | IDT71V3559S85BQI | IDT71V3576SA133BQGI |
| IDT71V25781SA166BQI | IDT71V3556SA166BQ | IDT71V3559SA75BQ | IDT71V3576SA133BQI |

Notes: For T & R (shipping method) "8" is added to the IDT part# suffix



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ATTACHMENT II - PCN # : A0705-02

Affected Part Number

| Part Number | Part Number | Part Number | Part Number |
|---------------------|---------------------|---------------------|---------------------|
| IDT71V3576SA150BQ | IDT71V3579S85BQI | IDT71V65803S100BQG | IDT71V67703S80BQ |
| IDT71V3576SA150BQG | IDT71V3579SA65BQ | IDT71V65803S100BQI | IDT71V67703S80BQG |
| IDT71V3576SA150BQGI | IDT71V3579SA75BQ | IDT71V65803S133BQ | IDT71V67703S80BQGI |
| IDT71V3576SA150BQI | IDT71V3579SA75BQG | IDT71V65803S133BQG | IDT71V67703S80BQI |
| IDT71V3577S65BQ | IDT71V3579SA75BQGI | IDT71V65803S133BQI | IDT71V67703S85BQ |
| IDT71V3577S75BQ | IDT71V3579SA75BQI | IDT71V65803S150BQ | IDT71V67703S85BQG |
| IDT71V3577S75BQI | IDT71V3579SA80BQ | IDT71V65803S150BQG | IDT71V67703S85BQGI |
| IDT71V3577S80BQ | IDT71V3579SA80BQG | IDT71V65803S150BQI | IDT71V67703S85BQI |
| IDT71V3577S80BQI | IDT71V3579SA80BQGI | IDT71V65902S75BQ | IDT71V67802S133BQ |
| IDT71V3577S85BQ | IDT71V3579SA80BQI | IDT71V65902S80BQ | IDT71V67802S133BQI |
| IDT71V3577S85BQG | IDT71V3579SA85BQ | IDT71V65902S85BQ | IDT71V67802S150BQ |
| IDT71V3577S85BQI | IDT71V3579SA85BQI | IDT71V65903S75BQ | IDT71V67802S150BQI |
| IDT71V3577SA75BQ | IDT71V65602S100BQ | IDT71V65903S75BQG | IDT71V67802S166BQ |
| IDT71V3577SA75BQGI | IDT71V65602S133BQ | IDT71V65903S80BQ | IDT71V67803S133BQ |
| IDT71V3577SA75BQI | IDT71V65602S150BQ | IDT71V65903S80BQG | IDT71V67803S133BQG |
| IDT71V3577SA80BQ | IDT71V65603S100BQ | IDT71V65903S85BQ | IDT71V67803S133BQGI |
| IDT71V3577SA80BQI | IDT71V65603S100BQG | IDT71V65903S85BQG | IDT71V67803S133BQI |
| IDT71V3577SA85BQ | IDT71V65603S100BQGI | IDT71V67602S133BQ | IDT71V67803S150BQ |
| IDT71V3577SA85BQG | IDT71V65603S100BQI | IDT71V67602S133BQG | IDT71V67803S150BQI |
| IDT71V3577SA85BQI | IDT71V65603S133BQ | IDT71V67602S133BQGI | IDT71V67803S166BQ |
| IDT71V35781SA166BQ | IDT71V65603S133BQG | IDT71V67602S133BQI | IDT71V67803S166BQG |
| IDT71V35781SA166BQI | IDT71V65603S133BQGI | IDT71V67602S150BQ | IDT71V67902S75BQ |
| IDT71V35781SA183BQ | IDT71V65603S133BQI | IDT71V67602S150BQI | IDT71V67902S75BQI |
| IDT71V35781SA183BQI | IDT71V65603S150BQ | IDT71V67602S166BQ | IDT71V67902S80BQ |
| IDT71V35781SA200BQ | IDT71V65603S150BQG | IDT71V67602S166BQG | IDT71V67902S80BQI |
| IDT71V35781SA200BQI | IDT71V65603S150BQGI | IDT71V67602S166BQGI | IDT71V67902S85BQ |
| IDT71V3578S133BQ | IDT71V65603S150BQI | IDT71V67602S166BQI | IDT71V67902S85BQI |
| IDT71V3578S133BQI | IDT71V65702S75BQ | IDT71V67603S133BQ | IDT71V67903S75BQ |
| IDT71V3578S150BQ | IDT71V65702S80BQ | IDT71V67603S133BQG | IDT71V67903S75BQI |
| IDT71V3578SA133BQ | IDT71V65702S85BQ | IDT71V67603S133BQGI | IDT71V67903S80BQ |
| IDT71V3578SA133BQI | IDT71V65703S75BQ | IDT71V67603S133BQI | IDT71V67903S80BQI |
| IDT71V3578SA150BQ | IDT71V65703S75BQG | IDT71V67603S150BQ | IDT71V67903S85BQ |
| IDT71V3578SA150BQI | IDT71V65703S80BQ | IDT71V67603S150BQG | IDT71V67903S85BQI |
| IDT71V3579S65BQ | IDT71V65703S80BQG | IDT71V67603S150BQI | IDT75N43102S50BC |
| IDT71V3579S75BQ | IDT71V65703S80BQGI | IDT71V67603S166BQ | IDT75N43102S50BCG |
| IDT71V3579S75BQG | IDT71V65703S80BQI | IDT71V67603S166BQG | IDT75N43102S50BCGI |
| IDT71V3579S75BQGI | IDT71V65703S85BQ | IDT71V67702S75BQ | IDT75N43102S50BCI |
| IDT71V3579S75BQI | IDT71V65703S85BQG | IDT71V67702S75BQI | IDT75N43102S62BC |
| IDT71V3579S80BQ | IDT71V65703S85BQGI | IDT71V67702S80BQ | IDT75N43102S62BCG |
| IDT71V3579S80BQG | IDT71V65703S85BQI | IDT71V67702S80BQI | |
| IDT71V3579S80BQGI | IDT71V65802S100BQ | IDT71V67702S85BQ | |
| IDT71V3579S80BQI | IDT71V65802S133BQ | IDT71V67702S85BQI | |
| IDT71V3579S85BQ | IDT71V65802S133BQI | IDT71V67703S75BQ | |
| IDT71V3579S85BQG | IDT71V65802S150BQ | IDT71V67703S75BQG | |
| IDT71V3579S85BQGI | IDT71V65803S100BQ | IDT71V67703S75BQGI | |

Notes: For T & R (shipping method) "8" is added to the IDT part# suffix