



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

PRODUCT/PROCESS CHANGE NOTICE (PCN)

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|---|--|
| PCN #: A1305-01 DATE: July 30, 2013 Product Affected: QSOP, SOIC, SSOP, TSSOP, VFQFPN (Refer to affected part list in Attachment 2) Date Effective: October 30, 2013 | MEANS OF DISTINGUISHING CHANGED DEVICES: <input type="checkbox"/> Product Mark <input checked="" type="checkbox"/> Back Mark Lot# will have a "Y" suffix <input type="checkbox"/> Date Code <input type="checkbox"/> Other |
| Contact: IDT PCN DESK E-mail: pcndesk@idt.com | Attachment: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Samples: Samples available upon request |

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 advise our customers that IDT plans to change from Gold bond wire to Copper bond wire for the selective products. This change is applicable to the existing qualified assembly sub-contractors of the affected part numbers.</p> <p>There is no change in the moisture sensitivity performance.</p> <p>Please refer to the following attachments for additional information. Attachment 1 outlines the qualification results. Attachment 2 shows the affected part numbers.</p> |
|--|--|

RELIABILITY/QUALIFICATION SUMMARY:

There is no expected change to the product quality or reliability performance.

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 90 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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PRODUCT/PROCESS CHANGE NOTICE (PCN)

ATTACHMENT 1 - PCN # : A1305-01

PCN Type: Assembly Material Change - Gold Wire to Copper Wire

Data Sheet Change: None

Details Of Change:

This notification is to advise our customers that IDT plans to change from Gold bond wire to Copper bond wire for the selective products. This change is applicable to the existing qualified assembly sub-contractors of the affected part numbers.

There is no change to the moisture performance of these packages.

Customers may expect to receive shipments with Copper wire process no sooner than 90 days from the date of this notification, July 30, 2013. Product assembled with Gold wire and Copper wire will be shipped during the transition period or until the Gold wire inventory has been depleted. However please note that product assembled with Gold wire and Copper wire will not be mixed in one tray stack, or tape and reel.

We request you to acknowledge receipt of this notification within 30 days of the date of this PCN notification. If you require samples to conduct an evaluation, please make your sample request within 30 days as samples are not built ahead of the change for all device options. You may contact your local sales representative to acknowledge this PCN and request samples.

Assembly Material : There is no change in the mold compound and die attach materials. The material sets used in assembly is in compliance with RoHS 5 (standard products) and RoHS 6 (green products) requirement.
There is no change in the moisture sensitivity performance.

Sample Availability : Samples are not built ahead of the change for all device types and may not be available for all affected device types.
Please contact your local IDT sales representative for your sample request and availability.



PRODUCT/PROCESS CHANGE NOTICE (PCN)

ATTACHMENT 1 - PCN # : A1305-01

Qualification Test Result :

Qual Vehicle: SSOP-56 (3 lots)
Packages Covered: SSOP-20, 28, 48, 56

| Test Description | Test Method | Test Results (SS / Rej) |
|--|-------------|-------------------------|
| * High Accelerated Stress Test (Biased, 130 °C/85% RH, 96 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 |
| Bond Shear | JESD22-B116 | 5/0, 5/0, 5/0 |

Note:

* Test requires moisture pre-conditioning sequence per JESD22-A113 and will use the existing moisture sensitivity level that has been qualified for this material set.

Qual Vehicle: TSSOP-64 (3 lots)
Packages Covered: TSSOP-8, 16, 20, 28, 48, 56, 64, SOIC-8, 16, 20, QSOP-20, 28

| Test Description | Test Method | Test Results (SS / Rej) |
|--|-------------|-------------------------|
| * High Accelerated Stress Test (Biased, 130 °C/85% RH, 96 Hrs) | JESD22-A110 | 45/0, #44/0, 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 |
| Bond Shear | JESD22-B116 | 5/0, 5/0, 5/0 |

Note:

* Test requires moisture pre-conditioning sequence per JESD22-A113 and will use the existing moisture sensitivity level that has been qualified for this material set.

mechanical reject



PRODUCT/PROCESS CHANGE NOTICE (PCN)

ATTACHMENT 1 - PCN # : A1305-01

Qualification Test Result :

Qual Vehicle: VFQFPN-32 (3 lots)

Packages Covered: VFQFPN-10, 16, 20, 40, 48, 56, 64, 72

| Test Description | Test Method | Test Results (SS / Rej) |
|---|-------------|----------------------------|
| * High Accelerated Stress Test (Biased, 130 °C/85% RH, 96 Hrs) | JESD22-A110 | 25/0, 25/0, 25/0 |
| * Temperature Cycle / Condition B (-55 °C to +125 °C, 700 Cyc) | JESD22-A104 | 25/0, 25/0, 25/0 |
| High Temp. Storage Test (150 °C, 1000 Hrs) | JESD22-A103 | 25/0, 25/0, 25/0 |
| Bond Shear | JESD22-B116 | 5/0, 5/0, 5/0 |

Note:

* Test requires moisture pre-conditioning sequence per JESD22-A113 and will use the existing moisture sensitivity level that has been qualified for this material set.

2. Product Electrical Characterization

Product electrical characterization has been successfully completed on representative product families and copper wire performance was comparable to gold wire performance.



PRODUCT/PROCESS CHANGE NOTICE (PCN)

ATTACHMENT 2 - PCN # : A1305-01

Affected Part Numbers

| Part Number | Part Number | Part Number | Part Number |
|-----------------|---------------|---------------|------------------|
| 1337GDVGI | 525R-03IT | 6V40088CNBGI | 932S208DFLF |
| 1337GDVGI8 | 527R-01 | 6V40088CNBGI8 | 932S208DFLFT |
| 1337GNLGI | 527R-01I | 6V40096PGG | 932S208DFT |
| 1337GNLGI8 | 527R-01ILF | 6V40096PGG8 | 932S208DFT-INO |
| 1338A-31DVGI | 527R-01ILFT | 6V41130NLG | 932S208DG |
| 1338A-31DVGI8 | 527R-01IT | 6V41130NLG8 | 932S208DGLF |
| 1339A-31DVGI | 527R-01LF | 6V41220DCG | 932S208DGLFT |
| 1339A-31DVGI8 | 527R-01LFT | 6V41220DCG8 | 932S208DGLN |
| 1562BM-201 | 527R-01T | 6V41220DCGI | 932S208DGLNT |
| 1562BM-201LF | 548AM-03LF | 6V41220DCGI8 | 932S208DGT |
| 1562BM-201LFT | 548AM-03LFT | 6V49061PAG | 932S208DGT-IB0 |
| 1562BM-201T | 548AMI-03LF | 6V49061PAG8 | 932S208DGT-INO |
| 441M-01LF | 548AMI-03LFT | 7151M-50 | 932S401EG |
| 441M-01LFT | 570B | 7151M-50LF | 932S401EGLF |
| 443MI-55LF | 570BI | 7151M-50LFT | 932S401EGLF-INT |
| 443MI-55LFT | 570BILF | 7151M-50T | 932S401EGLFT |
| 448RI-27LF | 570BILFT | 7151MI-50 | 932S401EGLFT-INT |
| 448RI-27LFT | 570BIT | 7151MI-50LF | 932S401EGT |
| 49FCT20805PYGI | 570BLF | 7151MI-50LFT | 932S421BGLF |
| 49FCT20805PYGI8 | 570BLFT | 7151MI-50T | 932S421BGLF-INT |
| 49FCT20805PYI | 570BT | 7152M-11 | 932S421BGLF-SUN |
| 49FCT20805PYI8 | 663M | 7152M-11LF | 932S421BGLFT |
| 49FCT806-1PY | 663MI | 7152M-11LFT | 932S421BGLFT-INT |
| 49FCT806-1PY8 | 663MILF | 7152M-11T | 932S421BGLFT-SUN |
| 49FCT806APY | 663MILFT | 7152MI-11 | 932S421CGLF |
| 49FCT806APY8 | 663MIT | 7152MI-11LF | 932S421CGLF-SUN |
| 49FCT806APYG | 663MLF | 7152MI-11LFT | 932S421CGLFT |
| 49FCT806APYG8 | 663MLFT | 7152MI-11T | 932S421CGLFT-SUN |
| 49FCT806APYI | 663MT | 8OSK133GILF | 932S422CFLF |
| 49FCT806APYI8 | 671G-16LF | 8OSK133GILFT | 932S422CFLFT |
| 49FCT806PY | 671G-16LFT | 8OSK481GILF | 932S422CGLF |
| 49FCT806PY8 | 671GI-16LF | 8OSK481GILFT | 932S422CGLFT |
| 49FCT806PYG | 671GI-16LFT | 8OSK481GLF | 932S431AGLF |
| 49FCT806PYG8 | 674R-01 | 8OSK481GLFT | 932S431AGLFT |
| 49FCT806PYI | 674R-01I | 9112AG-27 | 932S509HKLf |
| 49FCT806PYI8 | 674R-01ILF | 9112AG-27LF | 932S509HKLFT |
| 503M | 674R-01ILFT | 9112AG-27LFT | 932S801AG |
| 503MLF | 674R-01IT | 9112AG-27T | 932S801AGLF |
| 503MLFT | 674R-01LF | 91730AM | 932S801AGLFT |
| 503MT | 674R-01LFT | 91730AMLf | 932S801AGT |
| 525R-03I | 674R-01T | 91730AMLFT | 932S805CGLF |
| 525R-03ILF | 6P50016BNLGI | 91730AMT | 932S805CGLFT |
| 525R-03ILFT | 6P50016BNLGI8 | 932S208DF | 932S890CKLF |



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ATTACHMENT 2 - PCN # : A1305-01

Affected Part Numbers

| Part Number | Part Number | Part Number | Part Number |
|-------------------|------------------|------------------|-----------------|
| 932S890CKLFT | 9DB102BFLFT | 9DB108BGLFT | 9DB403DFLF |
| 932SQ420DGLF | 9DB102BFT | 9DB108BGLFT-INT | 9DB403DFLF-INT |
| 932SQ420DGLF-INT | 9DB102BG | 9DB108BGLN | 9DB403DFLF-SUN |
| 932SQ420DGLF-SUN | 9DB102BGILF | 9DB108BGLNT | 9DB403DFLFT |
| 932SQ420DGLFT | 9DB102BGILFT | 9DB108BGT | 9DB403DFLFT-INT |
| 932SQ420DGLFT-INT | 9DB102BGLF | 9DB108BGT-INO | 9DB403DFLFT-SUN |
| 932SQ420DGLFT-SUN | 9DB102BGLF-INT | 9DB1200BGLF | 9DB403DGILF |
| 932SQ420DKLF | 9DB102BGLFT | 9DB1200BGLF-SUN | 9DB403DGILFT |
| 932SQ420DKLFT | 9DB102BGLFT-INT | 9DB1200BGLFT | 9DB403DGLF |
| 932SQ425AKLF | 9DB102BGT | 9DB1200BGLFT-SUN | 9DB403DGLFT |
| 932SQ425AKLFT | 9DB104BF | 9DB1200CGLF | 9DB801BG |
| 932SQ428AKLF | 9DB104BFLF | 9DB1200CGLF-INT | 9DB801BGLF |
| 932SQ428AKLF-INT | 9DB104BFLFT | 9DB1200CGLF-SUN | 9DB801BGLFT |
| 932SQ428AKLFT | 9DB104BFLN | 9DB1200CGLFT | 9DB801BGT |
| 932SQ428AKLFT-INT | 9DB104BFLNT | 9DB1200CGLFT-INT | 9DB801CF |
| 932SQ430AKLF | 9DB104BFLNT-INO | 9DB1200CGLFT-SUN | 9DB801CFLF |
| 932SQ430AKLFT | 9DB104BFT | 9DB1233AGLF | 9DB801CFLF-INO |
| 93716AG | 9DB104BFT-INO | 9DB1233AGLFT | 9DB801CFLF-INT |
| 93716AGLF | 9DB104BG | 9DB1904BKLFT | 9DB801CFLFT |
| 93716AGLFT | 9DB104BGLF | 9DB1904BKLFT | 9DB801CFLFT-INO |
| 93716AGT | 9DB104BGLFT | 9DB233AGILF | 9DB801CFLFT-INT |
| 93732AF | 9DB104BGLN | 9DB233AGILF-INT | 9DB801CFT |
| 93732AFLF | 9DB104BGLNT | 9DB233AGILFT | 9DB801CG |
| 93732AFLFT | 9DB104BGT | 9DB233AGILFT-INT | 9DB801CGLF |
| 93732AFT | 9DB106BG | 9DB233AGLF | 9DB801CGLF-INT |
| 952623CG | 9DB106BGILF | 9DB233AGLF-INT | 9DB801CGLFT |
| 952623CGLF | 9DB106BGILF-TSW | 9DB233AGLFT | 9DB801CGLFT-INO |
| 952623CGLFT | 9DB106BGILFT | 9DB233AGLFT-INT | 9DB801CGLFT-INT |
| 952623CGT | 9DB106BGILFT-TSW | 9DB401BG | 9DB801CGT |
| 960008AFLF | 9DB106BGLF | 9DB401BGLF | 9DB803DFILF |
| 960008AFLFT | 9DB106BGLFT | 9DB401BGLFT | 9DB803DFILFT |
| 960010AF | 9DB106BGT | 9DB401BGT | 9DB803DFLF |
| 960010AFLF | 9DB108BF | 9DB401CFLF | 9DB803DFLF-INT |
| 960010AFLFT | 9DB108BFLF | 9DB401CFLF-INO | 9DB803DFLF-SUN |
| 960010AFT | 9DB108BFLFT | 9DB401CFLF-INT | 9DB803DFLFT |
| 960013BFLF | 9DB108BFLN | 9DB401CFLFT | 9DB803DFLFT-INT |
| 960013BFLFT | 9DB108BFLNT | 9DB401CFLFT-INO | 9DB803DFLFT-SUN |
| 960019BFLF | 9DB108BFT | 9DB401CFLFT-INT | 9DB803DGI |
| 960019BFLFT | 9DB108BFT-IB0 | 9DB401CGLF | 9DB803DGILF |
| 9DB102BF | 9DB108BFT-INO | 9DB401CGLFT | 9DB803DGILFT |
| 9DB102BFILF | 9DB108BG | 9DB401CGLFT-INO | 9DB803DGIT |
| 9DB102BFILFT | 9DB108BGLF | 9DB403DFILF | 9DB803DGLF |
| 9DB102BFLF | 9DB108BGLF-INT | 9DB403DFILFT | 9DB803DGLFT |



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Affected Part Numbers

| Part Number | Part Number | Part Number | Part Number |
|------------------|------------------|-------------------|------------------|
| 9DB823BGLF | 9FG108DGLF-INO | 9ZX21200AKLF | MK74CB218R |
| 9DB823BGLFT | 9FG108DGLFT | 9ZX21200AKLFT | MK74CB218RLF |
| 9DBL411AGLF | 9FG108DGLFT-INO | 9ZX21201AKLF | MK74CB218RLFTR |
| 9DBL411AGLFT | 9FG1200AG-5LF | 9ZX21201AKLFT | MK74CB218RTR |
| 9DBL411AKLF | 9FG1200AG-5LFT | 9ZX21501BKLF | MK74CB218RTR-INO |
| 9DBL411AKLF-INT | 9FG1200DG-1LF | 9ZX21501BKLFT | 932SQ427DKLF |
| 9DBL411AKLFT | 9FG1200DG-1LFT | 9ZX21501CKLF | 932SQ427DKLFT |
| 9DBL411AKLFT-INT | 9FG1201CG | 9ZX21501CKLFT | 9LPRS473CKLF |
| 9DBL411BGILF | 9FG1201CGLF | 9ZX21901BKLF | 9LPRS473CKLFT |
| 9DBL411BGILFT | 9FG1201CGLF-INT | 9ZX21901BKLF-INT | |
| 9DBL411BGLF | 9FG1201CGLFT | 9ZX21901BKLF-SUN | |
| 9DBL411BGLF-INO | 9FG1201CGLFT-INO | 9ZX21901BKLFT | |
| 9DBL411BGLFT | 9FG1201CGLFT-INT | 9ZX21901BKLFT-INT | |
| 9DBL411BGLFT-INO | 9FG1201CGT | 9ZX21901BKLFT-SUN | |
| 9DBL411BKILF | 9FG1201CGT-INO | 9ZX21901CKLF | |
| 9DBL411BKILFT | 9FG1201HGLF | 9ZX21901CKLF-INT | |
| 9DBL411BKLF | 9FG1201HGLF-INT | 9ZX21901CKLFT | |
| 9DBL411BKLF-INT | 9FG1201HGLFT | 9ZX21901CKLFT-INT | |
| 9DBL411BKLFT | 9FG1201HGLFT-INT | 9ZXL1530BKLF | |
| 9DBL411BKLFT-INT | 9FG1901HKLF | 9ZXL1530BKLFT | |
| 9EX21801AKILF | 9FG1901HKLFT | 9ZXL1930BKLF | |
| 9EX21801AKILFT | 9FG1904BK-1LF | 9ZXL1930BKLFT | |
| 9EX21801AKLF | 9FG1904BK-1LFT | MK1491-06R | |
| 9EX21801AKLFT | 9FGP202AKLF | MK1491-06RLF | |
| 9FG1001BGLF | 9FGP202AKLF-INT | MK1491-06RLFTR | |
| 9FG1001BGLFT | 9FGP202AKLF-SUN | MK1491-06RTR | |
| 9FG104CG | 9FGP202AKLFT | MK1491-06RTR-IB0 | |
| 9FG104CGLF | 9FGP202AKLFT-INT | MK1705A | |
| 9FG104CGLFT | 9FGP202AKLFT-SUN | MK1705ALF | |
| 9FG104CGT | 9FGP204BKLF | MK1705ALFTR | |
| 9FG104DGILF | 9FGP204BKLF-INT | MK1705ATR | |
| 9FG104DGILFT | 9FGP204BKLFT | MK1705S | |
| 9FG104DGLF | 9FGP204BKLFT-INT | MK1705STR | |
| 9FG104DGLF-INT | 9FGP205AKLF | MK1728AG-01LF | |
| 9FG104DGLFT | 9FGP205AKLFT | MK1728AG-01LFT | |
| 9FG104DGLFT-INT | 9LPR515CKLF | MK2049-34SAI | |
| 9FG108CG | 9LPR515CKLFT | MK2049-34SAILF | |
| 9FG108CGLF | 9LPRS357AKLF | MK2049-34SAILFTR | |
| 9FG108CGLFT | 9LPRS357AKLFT | MK2049-34SAITR | |
| 9FG108CGT | 9LPRS471CKLF | MK2049-45ASI | |
| 9FG108DGILF | 9LPRS471CKLFT | MK2049-45ASILF | |
| 9FG108DGILFT | 9LPRS501SKLF | MK2049-45ASILFTR | |
| 9FG108DGLF | 9LPRS501SKLFT | MK2049-45ASITR | |