



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

## PRODUCT/PROCESS CHANGE NOTICE (PCN)

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

**DESCRIPTION AND PURPOSE OF CHANGE:**

<input type="checkbox"/> Die Technology	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.
<input type="checkbox"/> Wafer Fabrication Process	
<input type="checkbox"/> Assembly Process	
<input type="checkbox"/> Equipment	
<input checked="" type="checkbox"/> Material	There is no change in the moisture sensitivity performance.
<input type="checkbox"/> Testing	
<input type="checkbox"/> Manufacturing Site	Please refer to the following attachments for additional information.
<input type="checkbox"/> Data Sheet	Attachment 1 outlines the qualification results.
<input type="checkbox"/> Other	Attachment 2 shows the affected part numbers.

**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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**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	9DB1904BKLF	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	