



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

## PRODUCT/PROCESS CHANGE NOTICE (PCN)

PCN #: **A1403-03**                      DATE: **October 16, 2014**  
 Product Affected:    QSOP, SOIC, SSOP, TSSOP, TQFP,  
    VFQFPN  
    (Refer to affected part list in Attachment 2)  
 Date Effective:        **January 16, 2015**

MEANS OF DISTINGUISHING CHANGED DEVICES:  
 Product Mark  
 Back Mark                      Lot# will have a "Y" suffix  
 Date Code  
 Other

Contact:                      IDT PCN DESK  
 E-mail:                        [pcndesk@idt.com](mailto:pcndesk@idt.com)

Attachment:                 Yes                       No  
 Samples:                      Samples available upon request

**DESCRIPTION AND PURPOSE OF CHANGE:**

- |  |  |
|--|--|
| <input type="checkbox"/> Die Technology<br><input type="checkbox"/> Wafer Fabrication Process<br><input type="checkbox"/> Assembly Process<br><input type="checkbox"/> Equipment<br><input checked="" type="checkbox"/> Material<br><input type="checkbox"/> Testing<br><input type="checkbox"/> Manufacturing Site<br><input type="checkbox"/> Data Sheet<br><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.<br/>Attachment 1 outlines the qualification results.<br/>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"/> <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: \_\_\_\_\_



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## PRODUCT/PROCESS CHANGE NOTICE (PCN)

### ATTACHMENT 1 - PCN # : A1403-03

**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, October 16, 2014. 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 # : A1403-03

#### Qualification Test Results :

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, 24, 28, 48, 56, 64, SOIC-8, 16, 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 # : A1403-03

#### Qualification Test Results :

Qual Vehicle: VFQFPN-32 (3 lots)

Packages Covered: VFQFPN-6, 8, 10, 16, 20, 24, 28, 32, 40, 48, 52, 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.

Qual Vehicle: TQFP-144 (3 lots)

Packages Covered: TQFP-52, 144

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, 24/0
* Temperature Cycle / Condition B (-55 °C to +125 °C, 700 Cyc)	JESD22-A104	25/0, 25/0, 22/0
High Temp. Storage Test (150 °C, 1000 Hrs)	JESD22-A103	24/0, 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.



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### ATTACHMENT 2 - PCN # : A1403-03

#### Affected Part Numbers

Part Number	Part Number	Part Number	Part Number
1338-18DVGI	2308A-3DCGI8	443MW-35LF	49FCT805APYGI
1338-18DVGI8	2308A-3DCI	443MW-35LFT	49FCT805APYGI8
1338B-18DCGI	2308A-3DCI8	443MW-42LF	49FCT805APYI
1338B-18DCGI8	2309A-1HDC	443MW-42LFT	49FCT805APYI8
1338B-18DVGI	2309A-1HDC8	445R-09LF	49FCT805APYT/R/C
1338B-18DVGI8	2309A-1HDCG	445R-09LFT	49FCT805BTPY
1339-2DVGI	2309A-1HDCG8	455R-19I	49FCT805BTPY8
1339-2DVGI8	2309A-1HDCGI	455R-19ILF	49FCT805BTPY8/C
1339-31DCGI	2309A-1HDCGI8	455R-19ILFT	49FCT805BTPYG
1339-31DCGI8	2309A-1HDCI	455R-19IT	49FCT805BTPYG8
1339B-31DVGI	2309A-1HDCI8	49FCT3805BAPY	49FCT805BTPYI
1339B-31DVGI8	23S08-1HPG	49FCT3805BAPY8	49FCT805BTPYI8
1527G-110	23S08-1HPG8	49FCT3805BAPYG	49FCT805BTPYT/R/C
1527G-110LF	23S08-1HPGG	49FCT3805BAPYG8	49FCT805CTPY
1527G-110LFT	23S08-1HPGG8	49FCT3805BAPYGI	49FCT805CTPY8
1527G-110T	23S08-1HPGGI	49FCT3805BAPYGI8	49FCT805CTPYG
2305M-1H	23S08-1HPGGI8	49FCT3805BAPYI	49FCT805CTPYG8
2305M-1HLF	23S08-1HPGI	49FCT3805BAPYI8	49FCT805CTPYI
2305M-1HLFT	23S08-1HPGI8	49FCT3805BPY	49FCT805CTPYI8
2305M-1HT	23S08E-2DC	49FCT3805BPY8	49FCT805PY
2305MI-1H	23S08E-2DC8	49FCT3805BPYG	49FCT805PY8
2305MI-1HLF	23S08E-2DCG	49FCT3805BPYG8	49FCT805PYG
2305MI-1HLFT	23S08E-2DCG8	49FCT3805BPYGI	49FCT805PYG8
2305MI-1HT	23S08E-2DCGI	49FCT3805BPYGI8	49FCT805PYGI
2308-3DC	23S08E-2DCGI8	49FCT3805BPYI	49FCT805PYGI8
2308-3DC8	23S08E-2DCI	49FCT3805BPYI8	49FCT805PYI
2308-3DCG	23S08E-2DCI8	49FCT3805DPYG	49FCT805PYI8
2308-3DCG8	23S08T-1DC	49FCT3805DPYG8	501G
2308-3DCGI	23S08T-1DC8	49FCT3805DPYGI	501GI
2308-3DCGI8	23S08T-1DCG	49FCT3805DPYGI8	501GILF
2308-3DCI	23S08T-1DCG8	49FCT3805DPYI	501GILFT
2308-3DCI8	23S08T-1DCGI	49FCT3805DPYI8	501GIT
2308A-2HDC	23S08T-1DCGI8	49FCT3805EPYG	501GLF
2308A-2HDC8	23S08T-1DCI	49FCT3805EPYG8	501GLFT
2308A-2HDCG	23S08T-1DCI8	49FCT3805EPYGI	501GT
2308A-2HDCG8	412M-02	49FCT3805EPYGI8	525-01R
2308A-2HDCGI	412M-02LF	49FCT3805EPYI	525-01RI
2308A-2HDCGI8	412M-02LFT	49FCT3805EPYI8	525-01RILF
2308A-2HDCI	412M-02T	49FCT805-1PY	525-01RILFT
2308A-2HDCI8	432M-70	49FCT805-1PY8	525-01RIT
2308A-3DC	432M-70LF	49FCT805APY	525-01RLF
2308A-3DC8	432M-70LFT	49FCT805APY8	525-01RLFT
2308A-3DCG	432M-70T	49FCT805APY8/C	525-01RT
2308A-3DCG8	443MI-42LF	49FCT805APYG	525KIT1
2308A-3DCGI	443MI-42LFT	49FCT805APYG8	525R-11



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#### Affected Part Numbers

Part Number	Part Number	Part Number	Part Number
525R-11LF	5V41064NLGI	601R-25ILFT	6V41265NLG
525R-11LFT	5V41064NLGI8	601R-25IT	6V41265NLG8
525R-11T	5V41068APGG	601R-25LF	6V41295NLG
525RI-11	5V41068APGG8	601R-25LFT	6V41295NLG8
525RI-11LF	5V41068APGGI	601R-25T	6V41295NLGI
525RI-11LFT	5V41068APGGI8	621M	6V41295NLGI8
525RI-11T	5V41185PGG	621MI	6V41321PGG
544M-01	5V41185PGG8	621MILF	6V41321PGG8
544M-01LF	5V41185PGGI	621MILFT	6V41321PGGI
544M-01LFT	5V41185PGGI8	621MIT	6V41321PGGI8
544M-01T	5V41210NLG	621MLF	6V49152APAGI
544MI-01LF	5V41210NLG8	621MLFT	6V49152APAGI8
544MI-01LFT	5V41236NLG	621MT	6V49205APAG
570GI-01	5V41236NLG8	621NILFT	6V49205APAG8
570GI-01LF	5V41236NLGI	621NLFT	6V49205APAGI
570GI-01LFT	5V41236NLGI8	650G-36	6V49205APAGI8
570GI-01T	5V41236PGG	650G-36LF	6V49205BNLGI
570M	5V41236PGG8	650G-36LFT	6V49205BNLGI8
570MI	5V41236PGGI	650G-36T	6V49205BPAGI
570MILF	5V41236PGGI8	650GI-36LF	6V49205BPAGI8
570MILFT	5V41242PGG	650GI-36LFT	6V49206NLGI
570MIT	5V41242PGG8	6INT30043NBG	6V49206NLGI8
570MLF	5V41242PGGI	6INT30043NBG8	6V49244ANLG
570MLFT	5V41242PGGI8	6INT30212NBGI	6V49244ANLG8
570MT	5V41316PGGI	6INT30212NBGI8	6V49300NLGI
580G-01ILF	5V41316PGGI8	6P37035NDGI	6V49300NLGI8
580G-01LFT	5V41326PGGI	6P37035NDGI8	6V49304NLGI
580G-01LF	5V41326PGGI8	6P40057ANDGI	6V49304NLGI8
580G-01LFT	5V49289BPAGI	6P40057ANDGI8	6V49322NLG
5K30202NDGI	5V49289BPAGI8	6P40267NLG	6V49322NLG8
5K30202NDGI8	5V49289PAG	6P40267NLG8	6V49R701-075NDGI
5K30212NBGI	5V49289PAG8	6P41311NLG	6V49R701-075NDGI8
5K30212NBGI8	5V49289PAGI	6P41311NLG8	6V49R901-018NLGI
5P90005CDCGI	5V49289PAGI8	6P41311NLGI	6V49R901-018NLGI8
5P90005CDCGI8	5V50027DCG	6P41311NLGI8	6V61036NDG
5T93GL16NLG	5V50027DCG8	6P49420NDG	6V61036NDG8
5T93GL16NLG8	5V50027DCGI	6P49420NDG8	6V61040NDG
5T93GL16NLGI	5V50027DCGI8	6T39007ANLGI	6V61040NDG8
5T93GL16NLGI8	5V60036NBG	6T39007ANLGI8	6V61040NDGH
5V30012DCG	5V60036NBG8	6V31027NLG	6V61040NDGH8
5V30012DCG8	5V60036NBGI	6V31027NLG8	74FCT807BTPY
5V30012DCGI	5V60036NBGI8	6V40182PGG	74FCT807BTPY8
5V30012DCGI8	601R-25	6V40182PGG8	74FCT807BTPYG
5V41064NLG	601R-25I	6V41217NLG	74FCT807BTPYG8
5V41064NLG8	601R-25ILF	6V41217NLG8	74FCT807BTPYGI



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#### Affected Part Numbers

Part Number	Part Number	Part Number	Part Number
74FCT807BTPYG18	841602AGILFT	932SQ427-56DKLFT	9DB433AGLFT-INT
74FCT807BTPYI	841602AGIT	932SQ432AKLF	9DB633AGILF
74FCT807BTPYI8	8422002AGI-07	932SQ432AKLF-IB0	9DB633AGILFT
74FCT807CTPY	8422002AGI-07LF	932SQ432AKLFT	9DB633AGLF
74FCT807CTPY8	8422002AGI-07LFT	932SQ432AKLFT-IB0	9DB633AGLF-INT
74FCT807CTPYG	8422002AGI-07T	932SQ435AKLF	9DB633AGLFT
74FCT807CTPYG8	8433625AGLF	932SQ435AKLFT	9DB633AGLFT-INT
74FCT807CTPYGI	8433625AGLFT	932SQL420BKLF	9DB833AGILF
74FCT807CTPYGI8	844N255AKILF	932SQL420BKLFT	9DB833AGILFT
74FCT807CTPYI	844N255AKILFT	932SQL435AKLF	9DB833AGLF
74FCT807CTPYI8	85320AMI	932SQL435AKLFT	9DB833AGLF-INT
74FCT807TPYG	85320AMILF	954101DG	9DB833AGLF-MOT
74FCT807TPYG8	85320AMILFT	954101DGLF	9DB833AGLFT
74FCT807TPYGI	85320AMIT	954101DGLFT	9DB833AGLFT-INT
74FCT807TPYGI8	853S9252BKILF	954101DGT	9DB833AGLFT-MOT
814S208BKILF	853S9252BKILF/W	954310BG	9DB834AGILF
814S208BKILFT	853S9252BKILFT	954310BGLF	9DB834AGILFT
82V2048ADA	874208BKILF	954310BGLFT	9DB834AGLF
82V2048ADA8	874208BKILFT	954310BGT	9DB834AGLFT
82V2048ADAG	8SLVP2108ANLGI	954310CGLF	9DBL1200AGILF
82V2048ADAG-CER	8SLVP2108ANLGI/W	954310CGLFT	9DBL1200AGILFT
82V2048ADAG-ECI	8SLVP2108ANLGI8	9DB106BF	9DBL1200AGLF
82V2048ADAG8	8T73S208BNLGI	9DB106BFILF	9DBL1200AGLFT
82V2048ADAG8-CER	8T73S208BNLGI8	9DB106BFILFT	9DBU0841AKILF
82V2048ADAG8-ECI	8V44N003NLGI	9DB106BFLF	9DBU0841AKILFT
82V2048DA	8V44N003NLGI8	9DB106BFLFT	9DBU0841AKLF
82V2048DA8	9279AF-03	9DB106BFT	9DBU0841AKLFT
82V2048DAG	9279AF-03LF	9DB108AG	9DBV0631BKILF
82V2048DAG-ECI	9279AF-03LFT	9DB108AGLF	9DBV0631BKILFT
82V2058DA	9279AF-03T	9DB108AGLFT	9DBV0631BKLF
82V2058DA8	932S200BF	9DB108AGT	9DBV0631BKLFT
82V2058DAG	932S200BFLF	9DB108AGT-IN0	9DFV0531AKILF
82V2058LDA	932S200BFLFT	9DB423BFLF	9DFV0531AKILFT
82V2058LDA8	932S200BFT	9DB423BFLFT	9DFV0531AKLF
82V2058LDAG	932S200BFT-CQ0	9DB423BGLF	9DFV0531AKLFT
82V3001APV	932S200BFT-IN0	9DB423BGLFT	9FG104EFILF
82V3001APV8	932S310AKLF	9DB433AFILF	9FG104EFILFT
82V3001APVG	932S310AKLFT	9DB433AFILFT	9FG104EFLF
82V3001APVG8	932S825BGLF	9DB433AFLF	9FG104EFLFT
83PN156DKILF	932S825BGLFT	9DB433AFLFT	9FG104EGILF
83PN156DKILFT	932SQ423AKLF	9DB433AGILF	9FG104EGILFT
83PR226BKI-01LF	932SQ423AKLFT	9DB433AGILFT	9FG104EGLF
83PR226BKI-01LFT	932SQ426AGLF	9DB433AGLF	9FG104EGLFT
841602AGI	932SQ426AGLFT	9DB433AGLF-INT	9FG108EFILF
841602AGILF	932SQ427-56DKLF	9DB433AGLFT	9FG108EFILFT



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### ATTACHMENT 2 - PCN # : A1403-03

#### Affected Part Numbers

Part Number	Part Number	Part Number	Part Number
9FG108EFLF	9FGU0831CKLF	9VRS4420CKLFT	9ZXL1230AKLFT
9FG108EFLFT	9FGU0831CKLFT	9VRS4420DKILF	9ZXL1231AKLF
9FG108EGILF	9FGV0631CKILF	9VRS4420DKILFT	9ZXL1231AKLF-INT
9FG108EGILFT	9FGV0631CKILFT	9VRS4420DKLFT	9ZXL1231AKLFT
9FG108EGLF	9FGV0631CKLF	9VRS4420DKLF-INT	9ZXL1231AKLFT-INT
9FG108EGLF-INO	9FGV0631CKLFT	9VRS4420DKLFT	9ZXL1251AKLF
9FG108EGLFT	9LP525BG-2LF	9VRS4420DKLFT-INT	9ZXL1251AKLFT
9FG108EGLFT-INO	9LP525BG-2LFT	9ZML1231BKLF	9ZXL1550AKLF
9FG1201HFLF	9LPR501SGLF	9ZML1231BKLF-IB0	9ZXL1550AKLFT
9FG1201HFLFT	9LPR501SGLFT	9ZML1231BKLFT	9ZXL1932AKLF
9FG1901CKLF	9LPR515CGLF	9ZML1231BKLF-IB0	9ZXL1932AKLFT
9FG1901CKLFT	9LPR515CGLFT	9ZML1232BKLF	9ZXL1950AKLF
9FG430AFILF	9LPRS436CGILF	9ZML1232BKLFT	9ZXL1950AKLFT
9FG430AFILFT	9LPRS436CGILFT	9ZX21207BKLF	LV810FI
9FG430AFLF	9LPRS436CGLF	9ZX21207BKLFT	LV810FILF
9FG430AFLFT	9LPRS436CGLF-INT	9ZX21502AKLF	LV810FILFT
9FG430AGILF	9LPRS436CGLFT	9ZX21502AKLFT	LV810FIT
9FG430AGILFT	9LPRS436CGLFT-INT	9ZX21903AKLF	MC100ES6221AE
9FG430AGLF	9LPRS511JGLF	9ZX21903AKLFT	MC100ES6221AER2
9FG430AGLFT	9LPRS511JGLFT	9ZXL0651AKLF	MK5814CMLF
9FG830AGILF	9UM702BKLF	9ZXL0651AKLFT	MK5814CMLFT
9FG830AGILFT	9UM702BKLFT	9ZXL0831AKLF	MK74CB218BR
9FG830AGLF	9VRS4331AKLF	9ZXL0831AKLFT	MK74CB218BRLF
9FG830AGLFT	9VRS4331AKLFT	9ZXL0851AKLF	MK74CB218BRLFTR
9FGU0831CKILF	9VRS4420CKLF	9ZXL0851AKLFT	MK74CB218BRTR
9FGU0831CKILFT	9VRS4420CKLF-INT	9ZXL1230AKLF	