



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

## PRODUCT/PROCESS CHANGE NOTICE (PCN)

PCN #: <b>A1506-02</b> DATE: <b>October 9, 2015</b> Product Affected: SSOP-48, SSOP-56 (Refer to affected part list in Attachment 2)  Date Effective: <b>January 9, 2016</b>	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: <a href="mailto:pcndesk@idt.com">pcndesk@idt.com</a>	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>Please refer to the following attachments for additional information. Attachment 1 outlines the qualification results. Attachment 2 shows the affected part numbers.</p>
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**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 # : A1506-02

**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.

Customers may expect to receive shipments with Copper wire process no sooner than 90 days from the date of this notification, October 9, 2015. 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 6 (green products) requirement.

**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.



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## PRODUCT/PROCESS CHANGE NOTICE (PCN)

### ATTACHMENT 1 - PCN # : A1506-02

#### Qualification Test Results :

Qual Vehicle: SSOP-56 (3 lots)

Packages Covered: SSOP-48, SSOP-56

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
Moisture Classification (Level 1, 260°C)	J-STD-020C	25/0, 25/0, 25/0

Note:

\* Test requires moisture pre-conditioning sequence per JESD22-A113 and will use the existing moisture sensitivity level (MSL1) 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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## PRODUCT/PROCESS CHANGE NOTICE (PCN)

### ATTACHMENT 2 - PCN # : A1506-02

#### Affected Part Numbers

Part Number	Part Number	Part Number	Part Number
1883AFLF	74FCT16245ATPVG8	74FCT16952CTPVG	9248AF-96LFT
1883AFLFT	74FCT16245CTPVG	74FCT16952CTPVG8	9248BF-146LF
1893BFILF	74FCT16245CTPVG8	74FCT16952ETPVG	9248BF-146LFT
1893BFILFT	74FCT16245ETPVG	74FCT16952ETPVG8	9248BF-195LF
1893BFLF	74FCT16245ETPVG8	74LVC162244APVG	9248BF-195LFT
1893BFLFT	74FCT162823ATPVG	74LVC162244APVG8	9248CF-126LF
1893CFILF	74FCT162823ATPVG8	74LVC162245APVG	9248CF-126LFT
1893CFILFT	74FCT162823CTPVG	74LVC162245APVG8	9248CF-172LF
1893CFLF	74FCT162823CTPVG8	74LVC16244APVG	9248CF-172LFT
1893CFLFT	74FCT162827ATPVG	74LVC16244APVG8	9248DF-39LF
1893HFILF	74FCT162827ATPVG8	74LVC16245APVG	9248DF-39LFT
1893HFILFT	74FCT162827CTPVG	74LVC16245APVG8	9250AF-25LF
72V8980PVG	74FCT162827CTPVG8	74LVC16373APVG	9250AF-25LFT
72V8980PVG8	74FCT163244APVG	74LVC16373APVG8	9250AF-30LF
74ALVC164245PVG	74FCT163244APVG8	74LVCH16245APVG	9250AF-30LFT
74ALVC164245PVG8	74FCT163244CPVG	74LVCH16245APVG8	9250BF-18LF
74FCT162244ATPVG	74FCT163244CPVG8	74LVCH16374APVG	9250BF-18LFT
74FCT162244ATPVG8	74FCT163245APVG	74LVCH16374APVG8	9250BF-28LF
74FCT162244CTPVG	74FCT163245APVG8	82V3001APVG	9250BF-28LFT
74FCT162244CTPVG8	74FCT163245CPVG	82V3001APVG8	9250BF-50LF
74FCT162244ETPVG	74FCT163245CPVG8	82V3002APVG	9250BF-50LFT
74FCT162244ETPVG8	74FCT163373APVG	82V3002APVG8	9250BFI-27LF
74FCT162245ATPVG	74FCT163373APVG8	82V3010PVG	9250BFI-27LFT
74FCT162245ATPVG8	74FCT163374APVG	82V3010PVG8	9250CF-09LF
74FCT162245CTPVG	74FCT163374APVG8	82V3011PVG	9250CF-09LFT
74FCT162245CTPVG8	74FCT163374CPVG	82V3011PVG8	9250CF-10LF
74FCT162260CTPVG	74FCT163374CPVG8	82V3012PVG	9250CF-10LFT
74FCT162260CTPVG8	74FCT16373ATPVG	82V3012PVG8	932S203AFLF
74FCT162373ATPVG	74FCT16373ATPVG8	87158AFLF	932S203AFLF-IN0
74FCT162373ATPVG8	74FCT16373CTPVG	87158AFLFT	932S203AFLFT
74FCT162373CTPVG	74FCT16373CTPVG8	9148AF-32LF	932S203AFLFT-IN0
74FCT162373CTPVG8	74FCT16374ATPVG	9148AF-32LFT	932S208DFLF
74FCT162373ETPVG	74FCT16374ATPVG8	9148BF-04LF	932S208DFLFT
74FCT162373ETPVG8	74FCT16374CTPVG	9148BF-04LFT	932S401EFLF
74FCT162374ATPVG	74FCT16374CTPVG8	9148BF-17LF	932S401EFLFT
74FCT162374ATPVG8	74FCT16374ETPVG	9148BF-17LFT	932S402AFLF
74FCT162374CTPVG	74FCT16374ETPVG8	9148BF-36LF	932S402AFLFT
74FCT162374CTPVG8	74FCT164245TPVG	9148BF-36LFT	932S403AFLF
74FCT162374ETPVG	74FCT164245TPVG8	9148BF-37LF	932S403AFLFT
74FCT162374ETPVG8	74FCT16543ATPVG	9148BF-37LFT	932S421BFLF
74FCT16244ATPVG	74FCT16543ATPVG8	9248AF-128LF	932S421BFLFT
74FCT16244ATPVG8	74FCT16543CTPVG	9248AF-128LFT	932S421CFLF
74FCT16244CTPVG	74FCT16543CTPVG8	9248AF-64LF	932S421CFLFT
74FCT16244CTPVG8	74FCT16952ATPVG	9248AF-64LFT	932S422CFLF
74FCT16245ATPVG	74FCT16952ATPVG8	9248AF-96LF	932S422CFLFT



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Part Number	Part Number	Part Number	Part Number
932S801AFLF	950225CFLF	951001AFLFT	952601EFLFT-IN0
932S801AFLFT	950225CFLFT	951402AFLF	952603DFLF
9341AFLF	950227AFLF	951402AFLFT	952603DFLFT
9341AFLFT	950227AFLFT	951412BFLF	952605CFLF
93705CFLF	950401CFLF	951412BFLFT	952605CFLFT
93705CFLFT	950401CFLFT	951413CFLF	952611BFLF
93718CFLF	950402AFLF	951413CFLFT	952611BFLFT
93718CFLFT	950402AFLFT	951416AFLF	952619CFLF
93718DFLF	950403CFLF	951416AFLFT	952619CFLFT
93718DFLFT	950403CFLFT	951417AFLF	952620CFLF
93725AFLF	950405AFLF	951417AFLFT	952620CFLFT
93725AFLFT	950405AFLF-DT0	951419AFLF	952621CFLF
93733CFLF	950405AFLFT	951419AFLFT	952621CFLFT
93733CFLFT	950405AFLFT-DT0	951421AFLF	952624AFLF
93734BFLF	950410AFLF	951421AFLFT	952624AFLFT
93734BFLFT	950410AFLFT	951463BFLF	952628AFLF
93735AFLF	950503AFLF	951463BFLFT	952628AFLFT
93735AFLFT	950503AFLFT	951463CFLF	952635AFLF
93738AFLF	950602CFLF	951463CFLFT	952635AFLFT
93738AFLFT	950602CFLFT	951808BFLF	952635BFLF
94211AFLF	950605AFLF	951808BFLFT	952635BFLFT
94211AFLFT	950605AFLFT	952001AFLF	952642AFLF
94227AFLF	950802AFLF	952001AFLFT	952642AFLFT
94227AFLFT	950802AFLFT	952004AFLF	952643AFLF
94230BFLF	950805AFLF	952004AFLFT	952643AFLFT
94230BFLFT	950805AFLFT	952007AFLF	952647AFLF
94231AFLF	950810CFLF	952007AFLFT	952647AFLFT
94231AFLFT	950810CFLFT	952011BFLF	952702BFLF
94252BFLF	950811AFLF	952011BFLFT	952702BFLFT
94252BFLFT	950811AFLFT	952013CFLF	952801CFLF
950201AFLF	950812CFLF	952013CFLFT	952801CFLFT
950201AFLFT	950812CFLFT	952017AFLF	952802AFLF
950201AFLFT-IN0	950908BFLF	952017AFLFT	952802AFLFT
950202CFLF	950908BFLFT	952018AFLF	952803AFLF
950202CFLFT	950909AFLF	952018AFLFT	952803AFLFT
950211BFLF	950909AFLFT	952019AFLF	952805BFLF
950211BFLFT	950910AFLF	952019AFLFT	952805BFLFT
950219BFLF	950910AFLFT	952505AFLF	952903AFLF
950219BFLFT	950913CFLF	952505AFLFT	952903AFLFT
950223AFLF	950913CFLFT	952508AFLF	952906AFLF
950223AFLFT	950917AFLF	952508AFLFT	952906AFLFT
950223BFLF	950917AFLFT	952508BFLF	952906BFLF
950223BFLFT	950927AFLF	952508BFLFT	952906BFLFT
950224AFLF	950927AFLFT	952601EFLF	952911BFLF
950224AFLFT	951001AFLF	952601EFLFT	952911BFLFT



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Part Number	Part Number	Part Number	Part Number
952926CFLF	954124BFLF	960013AFLFT	9FG1200DF-1LF
952926CFLFT	954124BFLFT	960013BFLF	9FG1200DF-1LFT
953002CFLF	954127BFLF	960013BFLFT	9FG1201CFLF
953002CFLFT	954127BFLFT	960019AFLF	9FG1201CFLFT
953002DFLF	954128AFLF	960019AFLFT	9FG1201HFLF
953002DFLFT	954128AFLFT	960019BFLF	9FG1201HFLFT
953005BFLF	954130BFLF	960019BFLFT	9FG1202CFLF
953005BFLFT	954130BFLFT	9DB108BFLF	9FG1202CFLFT
953008BFLF	954135AFLF	9DB108BFLFT	9FG830AFILF
953008BFLFT	954135AFLFT	9DB801BFLF	9FG830AFILFT
953201BFLF	954141AFLF	9DB801BFLFT	9FG830AFLF
953201BFLFT	954141AFLFT	9DB801CFLF	9FG830AFLFT
953202BFLF	954141BFLF	9DB801CFLF-IN0	9LP505-2HFLF
953202BFLFT	954141BFLFT	9DB801CFLF-INT	9LP505-2HFLFT
953203BFLF	954141CFLF	9DB801CFLFT	9LP525BF-2LF
953203BFLFT	954141CFLFT	9DB801CFLFT-IN0	9LP525BF-2LFT
953401CFLF	954147BFLF	9DB801CFLFT-INT	9LPR141AFLF
953401CFLFT	954147BFLFT	9DB803DFILF	9LPR141AFLFT
953402BFLF	954148AFLF	9DB803DFILFT	9LPR142AFLF
953402BFLFT	954148AFLFT	9DB803DFLF	9LPR142AFLFT
953805CFLF	954158AFLF	9DB803DFLF-INT	9LPR502HFLF
953805CFLFT	954158AFLFT	9DB803DFLF-SUN	9LPR502HFLFT
954101DFLF	954169AFLF	9DB803DFLFT	9LPR604AFLF
954101DFLFT	954169AFLFT	9DB803DFLFT-INT	9LPR604AFLFT
954102AFLN	954201BFLF	9DB803DFLFT-SUN	9LPR730AFLF
954102AFLNT	954201BFLFT	9DB823BFLF	9LPR730AFLFT
954102AFLNT-IN0	954206BFLF	9DB823BFLFT	9LPR780BFLF
954103EFLN	954206BFLFT	9DB833AFILF	9LPR780BFLFT
954103EFLNT	954211AFLF	9DB833AFILFT	9LPRS412BFLF
954103EFLNT-IN0	954211AFLFT	9DB833AFLF	9LPRS412BFLFT
954105BFLF	954501BFLF	9DB833AFLFT	9LPRS437AFLF
954105BFLFT	954501BFLFT	9DS800AFLF	9LPRS437AFLFT
954108CFLF	954505BFLF	9DS800AFLFT	9LPRS438AFLF
954108CFLFT	954505BFLFT	9E4101AFILF	9LPRS438AFLFT
954108CFLFT-IN0	954511BFLF	9E4101AFILFT	9LPRS439AFLF
954110BFLF	954511BFLFT	9EMS9633BFILF	9LPRS439AFLFT
954110BFLFT	960001AFLF	9EMS9633BFILFT	9LPRS502SFLF
954119DFLF	960001AFLFT	9EMS9633BFLF	9LPRS502SFLFT
954119DFLFT	960006AFLF	9EMS9633BFLFT	9LPRS525AFLF
954120EFLF	960006AFLFT	9FG108EFILF	9LPRS525AFLFT
954120EFLFT	960009BFLF	9FG108EFILFT	9P931CFLF
954123BFLF	960009BFLFT	9FG108EFLF	9P931CFLFT
954123BFLFT	960009CFLF	9FG108EFLFT	9P932CFLF
954124AFLF	960009CFLFT	9FG1200AF-5LF	9P932CFLFT
954124AFLFT	960013AFLF	9FG1200AF-5LFT	9P933DFLF



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#### Affected Part Numbers

Part Number	Part Number	Part Number	Part Number
9P933DFLFT	9P960AFLF	9UMS9633BFILF	9UMS9633BFLF
9P952DFLF	9P960AFLFT	9UMS9633BFILFT	9UMS9633BFLFT
9P952DFLFT			