





## PRODUCT/PROCESS CHANGE NOTICE (PCN)

### ATTACHMENT I - PCN # : A1004-01R1

**PCN Type:** Manufacturing Site - Alternate Assembly Location  
**Data Sheet Change:** None  
 No change in moisture sensitivity level (MSL)

#### Detail Of Change:

This notification is to advise our customers that IDT is adding Chipmos, Taiwan; Hana, Thailand; ASAT, China; ASEK, Taiwan; ASEC, Taiwan and OSET, Taiwan as alternate assembly facilities for 5mm x 5mm VFQFP-N-32, both standard and green version. There is no change to the moisture performance of this package using the assembly material sets as listed in the below table.

#### Qualification Information and Qualification Data:

**Affected Packages:** 5mm x 5mm VFQFP-N-32 (NL/NLG32)

**Assembly Material:** See Table below

Description	Existing	Add
Assembly Location	Carsem, Malaysia; Carsem, China; UTL, Thailand; USG, Singapore	Chipmos, Taiwan; Hana, Thailand; ASAT, China; ASEK, Taiwan; ASEC, Taiwan and OSET, Taiwan
Assembly Materials	Die Attach: QMI519, 8200T, Ablebond 3230	EN4900F, 8600, 2200, Yiztec 9246, CRM1076
	Wire: Au wire 0.8 mil, 0.9 mil, 1.0 mil, and Cu wire 0.9 mil	Au wire 0.8 mil, 0.9 mil, 1.0 mil, and Cu wire 0.9 mil, 0.8 mil
	Mold Compound: Sumitomo G770HC, G770HCD, Sumitomo G700LY	G770 series, CEL9220, G700 series, G631H
	Lead Frame: Copper Alloy	Copper Alloy
	Plating: Sn/Pb (standard) and matte 100% Sn (green)	Sn/Pb (standard) and matte 100% Sn (green)



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#### Qualification Test Plans and Results :

##### (I) Qual data for Chipmos, Taiwan

**Qual Vehicle:** VFQFP-N-46 ( 1 lot )

Test Description	Test Method	Test Results (SS / Rej)
* High Accelerated Stress Test (Unbiased, 130 °C/85% RH, 96 Hrs)	JESD22-A118	45/0
* Temperature Cycle (-65 °C to +150 °C, 500 Cyc)	JESD22-A104	45/0
* Pressure Cooker Test (121 °C/100%RH/15PSIG, 168 hrs)	JESD22-A102	45/0
High Temp. Storage Test (150 °C, 1000 Hrs)	JESD22-A103	45/0

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.

##### (II) Qual data for Hana, Thailand

**Qual Vehicle:** VFQFP-N-32 ( 1 lot )

Test Description	Test Method	Test Results (SS / Rej)
* High Accelerated Stress Test (Unbiased, 130 °C/85% RH, 96 Hrs)	JESD22-A118	77/0
* Temperature Cycle (-65 °C to +150 °C, 500 Cyc)	JESD22-A104	77/0
* Pressure Cooker Test (121 °C/100%RH/15PSIG, 168 hrs)	JESD22-A102	77/0
High Temp. Storage Test (150 °C, 1000 Hrs)	JESD22-A103	77/0

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.



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**Qualification Test Plans and Results :**

**(III) Qual data for ASAT, China**

**Qual Vehicle:** VFQFP-N-28 ( 1 lot )

Test Description	Test Method	Test Results (SS / Rej)
* High Accelerated Stress Test (Biased, 130 °C/85% RH, 100 Hrs)	JESD22-A110	45/0
* Temperature Cycle (-55 °C to +125 °C, 1000 Cyc)	JESD22-A104	45/0
* Pressure Cooker Test (121 °C/100%RH/2 ATM, 168 hrs)	JESD22-A102	45/0
High Temp. Storage Test (150 °C, 1000 Hrs)	JESD22-A103	77/0

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.

**(IV) Qual data for ASEK & ASEC Taiwan**

**Qual Vehicle:** VFQFP-N-32 ( 1 lot )

Test Description	Test Method	Test Results (SS / Rej)
* Temperature Cycle (-65 °C to +150 °C, 500 Cyc)	JESD22-A104	77/0
* Pressure Cooker Test (121 °C/100%RH/15PSIG, 168 hrs)	JESD22-A102	77/0
High Temp. Storage Test (150 °C, 1000 Hrs)	JESD22-A103	77/0

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.



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#### Qualification Test Plans and Results :

##### (V) Qual data for OSET, Taiwan

Qual Vehicle: VFQFP-N-46 ( 1 lot )

Test Description	Test Method	Test Results (SS / Rej)
* High Accelerated Stress Test (Unbiased, 130 °C/85% RH, 96 Hrs)	JESD22-A118	45/0
* Temperature Cycle (-65 °C to +150 °C, 500 Cyc)	JESD22-A104	45/0
High Temp. Storage Test (150 °C, 500 Hrs)	JESD22-A103	45/0

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.



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

## PRODUCT/PROCESS CHANGE NOTICE (PCN)

### ATTACHMENT II - PCN # : A1004-01R1

#### Affected Part Number

Part Number	Part Number	Part Number	Part Number
1894K-32LF	9LRS3197BKLF	9LRS4184AKLF	9LVS3162BKLF
1894K-32LFT	9LRS3197BKLFT	9LRS4184AKLFT	9LVS3162BKLFT
9LRS3102AKLF	9LRS3199AKLF	9LRS4188AKLF	9LVS3185AKLF
9LRS3102AKLFT	9LRS3199AKLFT	9LRS4188AKLFT	9LVS3185AKLFT
9LRS3103AKLF	9LRS4103AKLF	9LRS4200AKLF	9LVS3185BKLF
9LRS3103AKLFT	9LRS4103AKLFT	9LRS4200AKLFT	9LVS3185BKLFT
9LRS3105AKLF	9LRS4103BKLF	9LRS4205AKLF	9LVS3187AKLF
9LRS3105AKLFT	9LRS4103BKLFT	9LRS4205AKLFT	9LVS3187AKLFT
9LRS3106AKLF	9LRS4105BKLF	9LRS4210AKLF	9LVS3187BKLF
9LRS3106AKLFT	9LRS4105BKLFT	9LRS4210AKLFT	9LVS3187BKLFT
9LRS3107AKLF	9LRS4107AKLF	9LRS4903BKLF	9LVS3191AKLF
9LRS3107AKLFT	9LRS4107AKLFT	9LRS4903BKLFT	9LVS3191AKLFT
9LRS3113BKLF	9LRS4110BKLF	9LVRS392AKLF	9LVS3191BKLF
9LRS3113BKLFT	9LRS4110BKLFT	9LVRS392AKLFT	9LVS3191BKLFT
9LRS3120AKLF	9LRS4111BKLF	9LVRS393CKLF	9LVS3195AKLF
9LRS3120AKLFT	9LRS4111BKLFT	9LVRS393CKLFT	9LVS3195AKLFT
9LRS3130AKLF	9LRS4112BKLF	9LVRS394AKLF	9LVS3196AKLF
9LRS3130AKLFT	9LRS4112BKLFT	9LVRS394AKLFT	9LVS3196AKLFT
9LRS3177AKLF	9LRS4114AKLF	9LVRS394BKLF	9LVS3197AKLF
9LRS3177AKLFT	9LRS4114AKLFT	9LVRS394BKLFT	9LVS3197AKLFT
9LRS3180AKLF	9LRS4123AKLF	9LVRS394CKLF	9LVS3197BKLF
9LRS3180AKLFT	9LRS4123AKLFT	9LVRS394CKLFT	9LVS3197BKLFT
9LRS3187AKLF	9LRS4133AKLF	9LVRS395CKLF	9LVS3197CKLF
9LRS3187AKLFT	9LRS4133AKLFT	9LVRS395CKLFT	9LVS3197CKLFT
9LRS3187BKILF	9LRS4153AKLF	9LVRS395ENGKLF	9LVS3198AKLF
9LRS3187BKILFT	9LRS4153AKLFT	9LVRS395ENGKLF	9LVS3198AKLFT
9LRS3187BKLF	9LRS4157BKLF	9LVRS396AKLF	9LVS3199AKLF
9LRS3187BKLFT	9LRS4157BKLFT	9LVRS396AKLFT	9LVS3199AKLFT
9LRS3189AKLF	9LRS4167AKLF	9LVRS396BKLF	9LVS3199BKLF
9LRS3189AKLFT	9LRS4167AKLFT	9LVRS396BKLFT	9LVS3199BKLFT
9LRS3191AKLF	9LRS4180AKLF	9LVS3161AKLF	9UM701AKLF
9LRS3191AKLFT	9LRS4180AKLFT	9LVS3161AKLFT	9UM701AKLFT
9LRS3191BKLF	9LRS4180BKLF	9LVS3161BKLF	9UM706AKLF
9LRS3191BKLFT	9LRS4180BKLFT	9LVS3161BKLFT	9UM706AKLFT
9LRS3197AKLF	9LRS4183AKLF	9LVS3162AKLF	9UMS9611BKLF
9LRS3197AKLFT	9LRS4183AKLFT	9LVS3162AKLFT	9UMS9611BKLFT