



PRODUCT/PROCESS CHANGE NOTICE (PCN)

ATTACHMENT I - PCN # : A1004-04

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 ATP, Philippines and ASEK, Taiwan as the alternate assembly facilities for 15.0mm x 15.0mm x 1.7mm FPBGA-324 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: 15.0mm x 15.0mm x 1.7mm FPBGA-324 (BFG324)

Assembly Material: See Table below

Description	Existing	Add	
Assembly Location	SPIL, Taiwan	ATP, Philippines	ASEK, Taiwan
Assembly Materials	Die Attach: Ablestik 2000	2000B	2100A
	Wire: Au wire 0.9 mil	0.8 mil	0.9 mil
	Mold Compound: GE100LFCS	GE100LFCS	KE1250LKDS
	Substrate: HL832-NX/AUS 308	HL832NXA (EX)	HL832NXA (EX)
	Solder Balls: Sn96.5/Ag3.0/Cu0.5	Sn96.5/Ag3.0/Cu0.5	Sn96.5/Ag3.0/Cu0.5



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Qualification Test Plans and Results :

(I) Qual data for ATP, Philippines

Qual Vehicle: 15.0mm x 15.0mm x 1.7mm FPBGA-324 (1 lot)

Test Description	Test Method	Test Results (SS / Rej)
* High Accelerated Stress Test (Biased, 130 °C/85% RH, 100 Hrs)	JESD22-A110	25/0
* Temperature Cycle (-55 °C to +125 °C, 1000 Cyc)	JESD22-A104	25/0
High Temp. Storage Test (150 °C, 1000 Hrs)	JESD22-A103	24/0

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 ASEK, Taiwan

Qual Vehicle: 13mm x 13mm LBGA-167 (1 lot)

Test Description	Test Method	Test Results (SS / Rej)
* High Accelerated Stress Test (Unbiased, 130 °C/85% RH, 100 Hrs)	JESD22-A118	77/0
* Temperature Cycle (-65 °C to +150 °C, 500 Cyc)	JESD22-A104	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.