

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

PRODUCT/PROCESS CHANGE NOTICE (PCN)

					<u> </u>		
PCN #: A190	2-01	DATE: 12-Mar-2019	MEANS OF	DISTINGUISHI	ING CHANGEI	DEVICES:	
Product Affected: 4DB0226KB0AVG 4DB0226KB0AVG 4DB0226KB0AVG 4DB0226KB0AVG		68 G/M	☐ Product ☐ Back Ma☐ Date Coo☐ Other	rk "RC" profile "B" prefile and subs	Lot # will have: "RC" prefix for ASECL, Taiwan "B" prefix for SCK, Korea and substrate material used is traceable from lot#		
Date Effective:	12-Jun-2019						
Contact:	IDT PCN DESK		Attachment:	Yes		No	
E-mail:	pcndesk@idt.com			lease contact you ample request.	r local sales repr	resentative for	
DESCRIPTION A	AND PURPOSE OF C	CHANGE:					
 □ Die Technolog □ Wafer Fabrica □ Assembly Prod □ Equipment ■ Material □ Testing ■ Manufacturing □ Data Sheet □ Other 	tion Process cess	This notification is to advassembly and add UMTC ChipPAC Korea (SCK). There is no change to the Attachment I details the q	as alternate s	ubstrate at the ex			
RELIABILITY/QUALIFICATION SUMMARY: Refer to qualification data shown in Attachment I.							
IDT records indicto grant approval it will be assumed IDT reserves the	or request additional in d that this change is acc	itten notification of this cha formation. If IDT does not	receive acknowledge	owledgement with	hin 30 days of th	nis notice	
Customer:		□] Approv	al for shipmei	nts prior to e <u>f</u>	fective date.	
Name/Date: E-			-Mail Address:				
Title: Ph			hone# /Fax# :				
CUSTOMER CO	OMMENTS:						
IDT ACKNOWI	LEDGMENT OF REC	EIPT:					
			DATE:				

PRODUCT/PROCESS CHANGE NOTICE (PCN)

ATTACHMENT I - PCN #: A1902-01

PCN Type: Manufacturing Site - Alternate Assembly Location & Alternate material sets

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 ASECL as an alternate assembly and add UMTC as alternate substrate at the existing assembly STATS ChipPAC Korea (SCK).

The material set details of the current and alternate assembly location is as shown in Table 1.

There is no change to the moisture performance.

Table 1: Assembly Material Sets for The Existing and Alternate Assembly Location

	Existing Assembly (ASEK, Taiwan)	Existing Assembly (SCK, Korea)	Alternate Assembly (ASECL, Taiwan)	Alternate Substrate (SCK, Korea)
Die Bump	Cu/Ni/SnAg1.8 (40/3/27um)	Cu/Ni/SnAg1.8 (40/3/27um)	Cu/Ni/SnAg1.8 (40/3/27um)	Cu/Ni/SnAg1.8 (40/3/27um)
Mold Compound	EME-G311A Type C	KEG-1250FC-K	EME-G311A Type C	KEG-1250FC-K
Substrate	UMTC HL832NS/AUS410	Kinsus HL832NS/AUS410	UMTC HL832NS/AUS410	UMTC HL832NS/AUS410
Solder Balls	Sn/Ag1.2/Cu0.50/Ni0.05	Sn/Ag1.2/Cu0.50/Ni0. 05	Sn/Ag1.2/Cu0.50/Ni0.0 5	Sn/Ag1.2/Cu0.50/Ni0.05



PRODUCT/PROCESS CHANGE NOTICE (PCN)

ATTACHMENT I - PCN # : A1902-01

Qualification Information and Qualification Data:

FCCSP-53 **Affected Packages:**

Assembly Material: Shown on page 2 of this attachment.

Qual Plan & Results: Tests are in accordance with JEDEC47 recommended tests.

Qualification Vehicle: FCCSP-53

(I) ASECL, Taiwan

Test Description	Test Method	Test Results (Rej / SS)		
Test Description		Lot 1	Lot 2	Lot 3
* Temperature Cycling (-55°C to 125°C, 700 cycles)	JESD22-A104	0/25	0/25	0/25
* HAST - unbiased (130 °C/85% RH, 96 Hrs)	JESD22-A108	0/25	0/25	0/25
High Temperature Storage Bake (150°C, 1000 Hrs)	JESD22-A103	0/25	0/25	0/25
Moisture Sensitivity Level, MSL	J-STD-20 / MSL 3, 260 °C	0/25	0/25	0/25

Tests were subjected to Preconditioning per JESD22-A113 prior to stress test

(II) SCK, Korea

Test Description	Test Method	Test Results (Rej / SS)		
Test Description		Lot 1	Lot 2	Lot 3
* Temperature Cycling (-55°C to 125°C, 700 cycles)	JESD22-A104	0/25	0/25	0/25
* HAST - unbiased (130 °C/85% RH, 96 Hrs)	JESD22-A108	0/25	0/25	0/25
High Temperature Storage Bake (150°C, 1000 Hrs)	JESD22-A103	0/25	0/25	0/25
Moisture Sensitivity Level, MSL	J-STD-20 / MSL 3, 260 °C	0/25	0/25	0/25

Tests were subjected to Preconditioning per JESD22-A113 prior to stress test