

# **PRODUCT/PROCESS CHANGE NOTICE (PCN)**

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PCN #:	A0709-01	DATE: 16-Nov-2007	MEANS OF DISTI	NGUISHING CHA	NGED DEVICES:
Product A	(Standard and Gr Refer to Attachment II for th	een)	<ul> <li>Product Mark</li> <li>Back Mark</li> <li>Date Code</li> <li>Other</li> </ul>	Lot # will have a	"L" prefix
Date Effe			□ Other		
	Product Quality Assurance (408) 284-8321		Attachment:	Yes	□ No
Fax #:	(408) 284-1450		_		les representative for
E-mail:	Geoffrey.Cortes@idt.com		sample r	equest & availabili	ty.
<ul> <li>Die Te</li> <li>Wafer</li> <li>Assem</li> <li>Equipi</li> <li>Materi</li> <li>Testing</li> </ul>	Fabrication Process ably Process ment al g facturing Site	CHANGE: This notification is to adv 14mm x 14mm TQFP-10 ASAT, China. There is n Attachment I details the c affected list of part numb	0 both standard and g o change to the mois qualification data for	green version from ture performance c	AMKOR, Korea to f these packages.
Other					
	<b>ILITY/QUALIFICATION</b> Sequalification data shown in att				
IDT reco to grant a it will be IDT rese	MER ACKNOWLEDGMEN ords indicate that you require v approval or request additional assumed that this change is av rves the right to ship either ve rlier version has been deplete	written notification of this c information. If IDT does n cceptable. rsion manufactured after th	ot receive acknowled	gement within 30 d	lays of this notice
Custome	r:		Approval for	shipments prio	r to effective date.
Name/Da	ate:	E-1	Mail Address:		
Title:		Pho	one# /Fax# :		
CUSTON	MER COMMENTS:				
IDT ACH	<b>KNOWLEDGMENT OF RE</b>	CCEIPT:			
RECD. B	Y:		DATE:		
IDT FRA	-1509-01 REV. 00 09/18/01	Page 1	of 1		Refer To QCA-1795



## **PRODUCT/PROCESS CHANGE NOTICE (PCN)**

## **ATTACHMENT I - PCN # : A0709-01**

PCN Type:	Manufacturing Site - Change of 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 changing the assembly of 14mm x 14mm TQFP 100 both standard and green version from AMKOR, Korea to ASAT, China. There is no change to the moisture performance of these packages using the assembly material set as listed in the tables under each group.

There is no change in the moisture sensitivity level (MSL).

Attachment II shows the affected part numbers.

#### Sample Availability:

Samples for each package type are available for customer evaluation, but may not be available for all devices.

Please contact your local IDT sales representative for your sample request and availability.



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### **ATTACHMENT I - PCN # : A0709-01**

### **Qualification Information and Qualification Data:**

Affected Packages:	TQFP
	14mm 14mm 100L (DQ/DQG packages)
Assembly Material:	See Table below

Description	Existing	Add
Assembly Location	AMKOR, Korea	ASAT, China
	Die Attach: Ablestik 3230	2200
	Wire: 1.0 mil Au	1.0 mil Au
Assembly Materials	Mold Compound: EME-G700L	G700
	Lead Frame: Copper Alloy	Copper Alloy
	Plating: Sn/Pb (standard) and matte	Sn/Pb (standard) and matte 100% Sn
	100% Sn (green)	(green)

# Qualification Plan #:P07-09-04Test Vehicle:14mm x 14mm TQFP-52Qualification Test Plan and Results:

Test Description	Test Method	Test Results (SS/Rej)
* Temperature Cycling (Cond B, 1000 cycles)	JESD22-A104	77/0
* Auto Clave (121°C, 100% RH, 96 hours)	JESD22-A102	77/0
High Temperature Stabilization Bake (150 °C, 1000 hours)	JESD22-A103	77/0

**Notes:** \* Test requires moisture pre-conditioning sequence per JESD22-A113.



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## **ATTACHMENT I - PCN # : A0709-01**

### Tin Whisker Evaluation Test Data (JESD22A121 / JESD201)

Test Vehicle: 7mm x 7mm TQFP-48 and 14mm x 20mm LQFP-100

Test Description	Test Condition	Test Duration	Spec Limits	Test Results (SS/Rej)
High Temperature / Humidity Storage	60°C / 87% RH	0, 1000, 2000, 3000 hours	< 40µm	6/0, 6/0, 6/0
Ambient Temperature / Humidity Storage	30°C / 60% RH	0, 1000, 2000, 3000 hours	< 40µm	6/0, 6/0, 6/0
Temperature Cycling	-55°C to +85°C	0, 500, 1000 cycles	< 40µm	6/0, 6/0, 6/0



## **PRODUCT/PROCESS CHANGE NOTICE (PCN)**

## ATTACHMENT II - PCN # : A0709-01

### **Affected Part Number**

Part Number	Part Number	Part Number
IDT82V3280DQ	IDT82V3285DQ	IDT82V3380DQGI
IDT82V3280DQG	IDT82V3285DQG	IDT82V3380DQI

Notes: For T & R (shipping method) "8" suffix is added to the IDT part# respectively.