

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

PRODUCT/PROCESS CHANGE NOTICE (PCN)

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PCN #: A150	09-01	DATE: 2-Oct-201	5 MEANS	OF DIST	INGUISHING (CHANGED DEVICES:
Product Affected Refer	l: PDIP-28 to Attachment II for the a	ffected part numbers	☐ Produ ■ Back □ Date 0 □ Other	Mark Code	Lot # will ha	ive: or MMT, Thailand
Date Effective:	2-Jan-2016					
Contact:	IDT PCN DESK		Attachme	ent:	Yes	☐ No
E-mail:	pcndesk@idt.com		Samples:	Please co		al sales representative for
DESCRIPTION	AND PURPOSE OF CI	HANGE:				
 □ Die Technology □ Wafer Fabrication Process □ Assembly Process □ Equipment □ Material □ Testing ■ Manufacturing Site □ Data Sheet □ Other 		This notification is to advise our customers that IDT is adding Millennium Microtech (MMT), Thailand as the alternate Assembly facility. There is no change to the moisture performance. Attachment I details the qualification data for this change and Attachment II shows the affected list of part numbers.				
	QUALIFICATION SUI ation data shown in Attac					
CUSTOMER A	CKNOWLEDGMENT	OF RECEIPT:				
to grant approva it will be assume IDT reserves the	icate that you require writ all or request additional infeed that this change is acce by right to ship either version crsion has been depleted.	formation. If IDT does ptable.	not receive ac	cknowledg	gement within 30	0 days of this notice
Customer:			☐ Appr	oval for	shipments p	rior to effective date.
Name/Date:			E-Mail Add	ress:		
Title:			Phone# /Fax	Phone# /Fax# :		
CUSTOMER C	OMMENTS:					
IDE ACTIVITY	I ED CIMENTE OF DE CE	N. D.				
IDT ACKNOW	LEDGMENT OF RECH	CIPT:				
RECD. BY:			_ DATE:			

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ATTACHMENT I - PCN #: A1509-01

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 MMT, Thailand as the alternate Assembly facility.

The material set details of the current and alternate assembly location is as shown in Table 1. The die attach and mold compound used at the alternate assembly are qualified IDT materials. There is no change from the existing qualified lead frame material, lead finish, and wire for the alternate assembly location.

There is no change to the moisture performance.

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

	Existing Assembly (Amkor, Philippines)	Alternate Assembly (MMT, Thailand)
Die Attach	8390A	CRM1064L
Wire	Au wire	Au wire
Mold Compound	CK5000A	GE800

Qualification Information and Qualification Data:

Affected Packages: PDIP-28

Assembly Material: The affected package type is using MMT standard materials shown on page 2 of

this attachment.

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

Qualification Vehicle: PDIP-28

Test Description	Test Method	Test Results (Rej / SS)			
Test Description	rest wiethou	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-A110	0/25	0/25	0/25	
High Temperature Storage Bake (150°C, 1000 Hrs)	JESD22-A103	0/25	0/25	0/25	
Physical Dimensions	JESD22-B100	0/25	0/25	0/25	

^{*} Tests were subjected to Preconditioning per JESD22-A113 prior to stress test

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ATTACHMENT II - PCN #: A1509-01

Affected Part Numbers

Part Number	Part Number	Part Number	Part Number
71256SA12TPG	7204L12TPG	7201LA12TPG	7164L20TPGI
7201LA35TPG	7205L12TPG	71256SA15TPG	7164S20TPG
7201LA50TPG	7205L15TPGI	71256SA15TPGI	7164S20TPGI
7202LA12TPG	7206L15TPG	71256SA20TPG	7164S25TPG
7202LA15TPGI	7206L20TPGI	71256SA20TPGI	7200L12TPG
7203L12TPG	72200L10TPG	71256SA25TPG	7200L15TPGI
7203L15TPGI	7201LA25TPG	71256SA25TPGI	72240L10TPG

Pkg and Si Attribute		Current Site	New Site	Comment	
		ATP	ммт		
	Pkg type	PTG28	PTG28	No change	
Pkg	Pkg x & y (inches)	Package Length: 1.365 ± 0.02 & Package width: 0.285 ± 0.010	Package length: 1.375 (min), 1.385 (max), Package width: 0.279 (min), 0.289 (max)	Within IDT POD specification.	
	Pkg z (inches)	Min: 0.120, Max: 0.150	Min: 0.125, Max: 0.135	Within IDT specification.	
	Max Voltage	NA NA	NA NA	NA	
	Capacitors Si Process	NA No change	NA No change same wafer	NA No change	
	Wafer Size	No change	No change same wafer	No change	
	Die size (mm2)	No change	No change same wafer	No change	
	Die Aspect Ratio	No change	No change same wafer	No change	
	Die thickness (mils)	No change	No change same wafer	No change	
	Polyimide (Y/N)	No change	No change same wafer	No change	
	Silicon Metal Layers	No change	No change same wafer	No change	
	Scribe Width (um)	No change	No change same wafer	No change	
근	UBM source	No change	No change same wafer	No change	
•ర	Silicon UBM Stack-up	No change	No change same wafer	No change	
uo:	Bump source	No change	No change same wafer	No change	
Silicon & FLI	Bump pitch I/O & Core (um)	No change	No change same wafer	No change	
	Total Bump count	No change	No change same wafer	No change	
	Bump Diameter	No change	No change same wafer	No change	
	Bump Height	No change	No change same wafer	No change	
	Bump Metallurgy	No change	No change same wafer	No change	
	Wafer Bump Flux CAM Flux	No change No change	No change same wafer No change same wafer	No change No change	
	Underfill Material	No change	No change same wafer	No change	
	Silicon UBM/SRO	No change	No change same water	No change	
	Halogen Free ?	NA NA	NA	NA	
	Substrate Layers	NA	NA	NA	
	Substrate thickness	NA	NA	NA	
	Core thickness (um)	NA	NA	NA	
	Core Material	NA	NA	NA	
	Outer layer Lines/space (um)	NA	NA	NA	
	Bump Pre-solder (SOP)	NA	NA	NA	
	Bump presolder (SOP) height/diameter	NA	NA	NA	
0	Bump Capture Pad/SRO IO (um)	NA	NA	NA	
Substrate	Substrate Ball Capture Pad/SRO (um)	NA	NA	NA	
Sub	Number of PTH/M1-M2 uVias	NA	NA	NA	
	Core PTH/Capture pad (um)	NA	NA	NA	
	Substrate Design Rule & BOM	NA	NA	NA	
	Substrate Supplier	NA	NA	NA	
	Build up layer (thickness)	NA NA	NA NA	NA	
	Solder mask (thickness) C1 & C4 thickness (plate)	NA NA	NA NA	NA NA	
	C2 & C3 thickness (foil +	NA NA	NA NA	NA NA	
	plate) Surface finish (thickness)	NA	NA	NA	
	2nd level Ball count	NA NA	NA NA	NA	
	2nd level BA Flux	NA NA	NA NA	NA	
SLI	2nd Ball Dia (mm)	NA NA	NA NA	NA	
U,	2nd level metallurgy	NA	NA	NA	
	2nd level ball pitch (mm)	NA	NA	NA	

- -IDT Part No-
- 71256SA12TPG
- 71256SA15TPG
- 71256SA15TPGI
- 71256SA20TPG
- 71256SA20TPGI
- 71256SA25TPG
- 71256SA25TPGI
- 7164L20TPGI
- 7164S20TPG
- 7164S20TPGI
- 7164S25TPG
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- 7200L12TPG
- 7200L15TPGI
- 7201LA12TPG
- 7201LA25TPG
- 7201LA35TPG
- 7201LA50TPG
- 7202LA12TPG
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- 7202LA15TPGI
- 7203L12TPG
- 7203L15TPGI
- 7204L12TPG
- 7205L12TPG
- 7205L15TPGI
- 7206L15TPG
- 7206L20TPGI
- 72200L10TPG
- 72240L10TPG