Integrated Device Technology, Inc. 2975 Stender Way, Santa Clara, CA - 95054 PRODUCT/PROCESS CHANGE NOTICE (PCN)			
PCN #: SR-0408-02 DATE: 8/18/2004 Product Affected: TSOP28 (PZ28) package	MEANS OF DISTINGUISHING CHANGED DEVICES:		
Date Effective: 11/17/2004	□ Other		
Contact:Geoffrey CortesTitle:Manager, Corporate Quality & ReliabilityPhone #:(408) 492-8321Fax #:(408) 727-2328E-mail:Geoffrey.Cortes@idt.com	Attachment: Wes INO		
 DESCRIPTION AND PURPOSE OF CHANGE: Die Technology Wafer Fabrication Process Assembly Process Equipment Material Testing Manufacturing Site Data Sheet Other 	te assembly facility for TSOP (PZ28) package and addition of RM-1076DS. This notification is to advise our customer of embly material and alternate assembly facility. Please see additional details.		
RELIABILITY/QUALIFICATION SUMMARY: Please see attached reliability qualification data.			
CUSTOMER ACKNOWLEDGMENT OF RECEIPT: IDT records indicate that you require written notification of this to grant approval or request additional information. If IDT does it will be assumed that this change is acceptable. IDT reserves the right to ship either version manufactured after on the earlier version has been depleted.	s change. Please use the acknowledgement below or E-Mail not receive acknowledgement within 30 days of this notice the process change effective date until the inventory		
Customer:	Approval for shipments prior to effective date.		
Name/Date: E	-Mail Address:		
Title: P	none# /Fax# :		
CUSTOMER COMMENTS:			
IDT ACKNOWLEDGMENT OF RECEIPT:			
RECD. BY:	DATE:		
IDT FRA-1509-01 REV. 00 09/18/01 Page	1 of 1 Refer To QCA-1795		



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ATTACHMENT - PCN #: SR-0408-02

PCN Type:Manufacturing Site and Assembly Material change.Data Sheet Change:There is no change in Moisture Sensitive Level.Detail Of Change:To qualify ASE-Taiwan as an alternate assembly facility for TSOP (PZ28) package and addition
of new die attach material Sumitomo CRM-1076DS. The successful completion of this
qualification will improve IDT's support of current and future production needs for TSOP
(PZ28) package. There is no change in Moisture Sensitive Level (MSL). Products will be
shipped at the existing MSL and each shipment is labeled with the correct MSL. Please refer to
the label on each shipment for MSL information.

Description	Manufacturing Site		
	Existing	Add	
Assembly Location	ChipPac - Shanghai	ASE-Taiwan	
Assembly Material	Ablestik - 3230 Copper leadframe	Sumitomo CRM -1076DS Alloy 42 leadframe	

The affected part #s are:

IDT71256SA12PZ	IDT71256SA20PZI	IDT71V256SA12PZ
IDT71256SA12PZI	IDT71256SA25PZ	IDT71V256SA12PZI
IDT71256SA15PZ	IDT71256SA25PZI	IDT71V256SA15PZ
IDT71256SA15PZI	IDT71V256SA10PZ	IDT71V256SA15PZI
IDT71256SA20PZ	IDT71V256SA10PZI	IDT71V256SA20PZI

Note: For T & R (shipping method) "8" is added to the p/n and for industrial grade "I" is added to the part number.

Samples are not built ahead of the change and are limited to selective devices. Please contact your local field sales representative for sample availability and additional information.



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ATTACHMENT - PCN #: SR-0408-02

Qualification Plan #:P04-02-06Test Vehicle:IDT71V256Qualification Test Plan and Results:

Test Description	Test Method	Sample Size / # of Fails	Test Results
* High Accelerated Stress Test (Biased, 130 °C/85% RH, 100 Hrs)	JESD22-A110-B	45/0	45/0
* Temperature Cycling (-65 °C to 150 °C, 500 cycle)	JESD22-A104-B	45/0	45/0
* Auto Clave (121 °C, 2 ATM, 168 Hrs)	JESD22-A102-C	45/0	45/0
Life Test (125 °C, 1000 Hrs)	JESD22-A108-B	77/0	77/0
Moisture Sensitivity Classification	J-STD-020B	90/0	90/0
Internal Visual Inspection	MIL-STD-883 Method - 2010	5/0	5/0
External Visual Inspection	JESD22-B101	25/0	25/0
X-ray Examination	MIL-STD-883 Method - 2015	45/0	45/0
Bond Pull Test	MIL-STD-883 Method - 2011	5/0	5/0
Lead Integrity Test	JESD22-B105C	3/0	3/0
Adhesion of Lead Finish	MIL-STD-883 Method - 2025	3/0	3/0
Resistance to Solvents	JESD22-B107	3/0	3/0
Solderability Test	JESD22-B102-C J-STD-002	5/0	5/0
Bake & Ball Shear Strength	JESD22-B116	5/0	5/0
Physical Dimensions	JESD22-B100-B	5/0	5/0
Die Shear Strength	MIL-STD-883 Method - 2019	5/0	5/0

Notes: * Test requires moisture pre-conditioning sequence per JESD22-A113C.

Electrical Conductive Die Attach Paste

"SUMIRESIN EXCEL "CRM-1076DS

Characteristics

Good Adhesion, Low Stress and High Reliability Better Dispensability Silver Paste with Oven Cure

Properties

ite	em	unit	CRM- 1076DS	Test Method	Application
Appe	arance	-	Silver Color		Dispense, Line-draw,
Specifi	c Gravity	-	3.5		Screen Printing, Stamping
Viso	cosity	PS (Pa∙s)	200 (20.0)	E-type Viscometer	<u>Typical Cure Condition</u> 20min/175C in Oven
Thixotrop	oic Index*1	-	3.2		60min/120C in Oven
Tack F	ree Time	hr	24	SB Method	
Ag c	ontent	wt%	75		Storage Condition
Ionics *2	Na	ppm	2	lon Chromatography	Shelf Life : 6 Months
	CI		12	emenatography	Store below -15C
Volume	Resistivity	Ω-cm	4x10 ⁻⁴	SB Method	 Thawing Condition : 1hr/RT
Die	RT	gf/2x2mm	2000<	Tension	(5 or 10cc Syringe)
Strength	@250C	(1)/2/2/11/11)	2500	Gauge	 Pot Life@25C : 48hrs
(2x2mm)	@350C		1400		Use Up Within 48hrs
Elastic	Modulus	kgf/mm ² (MPa)	500 (4900)	Tensile Test	After Thawing
Room Te	mperature	kgf/mm ² (MPa)	1000 (9900)	DMS	
@2	50 C	kgf/mm ² (MPa)	55 (550)	DMS	■ 1076DS ■ CRM-1033B
7	Гg	С	110	TMA	
CTE	α_1	ppm	30		
	α ₂		70		
Wt	@ 175C	%	1.4	TGA	
LOSS	After Cure	%	1.63	TGA	Strengt
Moi Absor	sture ption *3	%	0.2	SB Method	
Cond	uctivity	W/m·K	1.5	Laser- Flash Method	

tio of 0.5rpm/2.5rpm (by E-Type Viscometer)

* 2 PCT 125C,20hrs

* 3 85C、85RH%、72hrs (Typical Value)



SUMITOMO BAKELITE CO.,LTD.

Soaking Time(Hrs)

Moisture Condition : 85C 85%RH