

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

PRODUCT/PROCESS CHANGE NOTICE (PCN)

						(/	
PCN #: A1905-01 DATE: 11-		11-Jun-2019	MEANS OF DISTINGUISHING CHANGED DEVICES:				D DEVICES:	
Product Affected: QS	SOP-16			□ Produc	t Mark	Lot # will	have	
(R	Refer to Attachment	II for the	affected part#)	Back N	/lark			n, Malaysia (M
, , , , , , , , , , , , , , , , , , ,			• /	Date C	ode	site)		1, 1v1a1ay51a (1v1
				□ Other		5100)		
Date Effective: 11-S	Sep-2019							
Contact: IDT P	PCN DESK			Attachmer	nt:	Yes		No
E-mail: pcnde	esk@idt.com			Samples:	Please con sample re		local sales rep	resentative for
DESCRIPTION AND F	PURPOSE OF CH	ANGE:						
□ Die Technology								
□ Wafer Fabrication Pr		This notification is to advise our customers that IDT is adding Carsem, Malaysia (M						
Assembly Process		site) as an alternate assembly facility as one of the existing assembly facility, OSET has discontinued the package.						
Equipment	11		tillided the pack	ine package.				
MaterialTesting	Т	There is no change to the moisture performance.						
 I resulting Manufacturing Site 				1.0.	1.			
		ent I details the qualification results. ent II lists the affected part numbers.						
□ Other		liacinnei		cieu part n	unioers.			
RELIABILITY/QUAL	LIFICATION SUM	MARY	:					
Refer to qualification da	ata shown in Attach	ment I.						
CUSTOMER ACKNO	WLEDGMENT O	F RECH	EIPT:					
IDT records indicate the				nge Please	use the ac	knowledge	ement helow o	r F-Mail
to grant approval or req				-		-		
it will be assumed that t	-							
			ctured after the p	process cha	nge effecti	ve date unt	til the inventor	ry
IDT reserves the right to ship either version manufactured after the process change effective date until the inventory on the earlier version has been depleted.								
	1							
Customer:			_ 🗆	Appro	oval for s	shipment	s prior to e <u>j</u>	ffective date.
Name/Date:			E-	Mail Addre	ess:			
			hone# /Fax# :					
CUSTOMER COMMI	ENTS:							
IDT ACKNOWLEDGMENT OF RECEIPT:								
RECD. BY:				DATE:				
				-				



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ATTACHMENT I - PCN # : A1905-01

PCN Type:	Alternate Assembly Location & Change of 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 Carsem, Malaysia (M site) as an alternate assembly facility as one of the existing assembly facility, OSET has discontinued the package.

The material set details of the current and alternate assembly location is as shown in Table 1. There will be no change in wire type as a result of this PCN. Customers receiving products assembled in Gold wire will continue to receive Gold wire parts and vice versa except for some select part numbers as stated below.

There is no change to the moisture performance rating but the material declaration will differ.

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

	Existi	ng	Future		
Material Set / Assembly	ATP - Amkor, Philippines	OSET - OSE, Taiwan	ATP - Amkor, Philippines	CRSM - Carsem, Malaysia (M site)	
Die Attach	Ablestik 8290	EN4900GC	Ablestik 8290	84-1 LMI SR4	
Bonding Wire	Gold wire, Copper wire	Gold wire	Gold wire, Copper wire	Gold wire, Copper wire*	
Mold Compound	EME-G600	CEL-9220HF	EME-G600	CEL-8240HF	

* Copper wire for part# 9112BF-17LF(T)



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ATTACHMENT I - PCN # : A1905-01

Qualification Information and Qualification Data:

- Affected Packages: QSOP-16
- Assembly Material: Shown on page 2 of this attachment.
- Qual Plan & Results: Tests are in accordance with JEDEC47 recommended tests.

Qualification Vehicle: QSOP-20 (Gold wire) & QSOP-28 (Copper wire)

		Test Results Gold wire & Copper wire (Rej / SS)			
Test Description	Test Method	Lot 1	Lot 2	Lot 3	
* Temperature Cycling (-55°C to 125°C, 700 cycles)	JESD22-A104	0/25, 0/25	0/25, 0/25	0/25, 0/25	
* HAST - biased (130 °C/85% RH, 96 Hrs)	JESD22-A110	0/25, 0/25	0/25, 0/25	0/25, 0/25	
High Temperature Storage Bake (150°C, 1000 Hrs)	JESD22-A103	0/25, 0/25	0/25, 0/25	0/25, 0/25	
X-Ray Examination	IDT Spec. MAC- 3012	45/5, 45/5	45/5, 45/5	45/5, 45/5	
Ball Shear Test	JESD22-B117	0/5, 0/5	0/5, 0/5	0/5, 0/5	
Bond Pull Test	MIL-STD-883 (Method 2011)	0/5, 0/5	0/5, 0/5	0/5, 0/5	
Moisture Sensitivity Level, MSL	J-STD-20 / MSL 1, 260 °C	0/25	0/25	-	

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

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ATTACHMENT II - PCN # : A1905-01

Affected Part Numbers

Part Number	Part Number	Part Number	Part Number
74CBTLV3125QG	9112BF-17LFT	QS3257QG	QS3VH253QG8
74CBTLV3125QG8	QS3125QG	QS3257QG8	QS3VH257QG
74CBTLV3251QG	QS3125QG8	QS3VH125QG	QS3VH257QG8
74CBTLV3251QG8	QS3126QG	QS3VH125QG8	QS4A101QG
74CBTLV3253QG	QS3126QG8	QS3VH126QG	QS4A101QG8
74CBTLV3253QG8	QS3251QG	QS3VH126QG8	QS4A205QG
74CBTLV3257QG	QS3251QG8	QS3VH251QG	QS4A205QG8
74CBTLV3257QG8	QS3253QG	QS3VH251QG8	QS4A210QG
9112BF-17LF	QS3253QG8	QS3VH253QG	QS4A210QG8