

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

PRO	DDUCT/PROCESS CI	HANGE NOTICE (PCN)			
PCN #: DC1308-01 Product Affected: VFQFP Refer to Attachmen	DATE: 26-Sep-2013 N-56 In I for the affected part numbers	MEANS OF DISTINGUISHING CHANGED DEVICES: ■ Product Mark Change in Ordering part# □ Back Mark □ Date Code □ Other			
Date Effective: 26-Sep-2	013				
Contact: IDT PCN I E-mail: pcndesk@		Attachment: Yes No Samples: Please contact your local sales representative for sample request.			
DESCRIPTION AND PURF	OSE OF CHANGE:				
□ Die Technology□ Wafer Fabrication Process□ Assembly Process□ Equipment	DAC1653 and DAC16 IDT has changed produ	This notification is to inform our customers that the product name of DAC1653 and DAC1658 families have been converted to the IDT standard format. IDT has changed product name ending "HN-C1" or "NLG-1" to "NLGA".			
☐ Material	The new product name	The new product name will be reflected on the top mark.			
☐ Testing☐ Manufacturing Site	"NLGA" version will o	"NLGA" version will contain a new silicon version.			
☐ Data Sheet ☐ Other		Attachment I shows the affected list of part numbers. Attachment II shows the qualification data.			
RELIABILITY/QUALIFIC	ATION SUMMARY:				
There is no expected change	to the product quality and reliability.				
to grant approval or request a it will be assumed that this cl	n require written notification of this chadditional information. If IDT does no nange is acceptable. • either version manufactured after the	nange. Please use the acknowledgement below or E-Mail of receive acknowledgement within 30 days of this notice a process change effective date until the inventory			
Customer:		☐ Approval for shipments prior to effective date.			
Name/Date:		E-Mail Address:			
Title: Pl		Phone# /Fax# :			
CUSTOMER COMMENTS	:				
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IDT ACKNOWLEDGMEN RECD. BY:	T OF RECEIPT:	DATE:			
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PRODUCT/PROCESS CHANGE NOTICE (PCN)

ATTACHMENT I - PCN #: DC1308-01

PCN Type: Change of die revision

Data Sheet Change: None

No change in moisture sensitivity level (MSL)

Detail Of Change:

This notification is to inform our customers that the product name of DAC1653 and DAC1658 families have been converted to the IDT standard format. IDT has changed product name ending "HN-C1" or "NLG-1" to "NLGA". Refer to Table 1.

The new product name will be reflected on the top mark.

"NLGA" version will contain a new silicon version. Refer to qualification data in attachment II.

Table 1: Ordering Part# Changes

Old Ordering Part Number	New Ordering Part Number	
DAC1653D1G0NLG-C1	DAC1653D1G0NLGA	
DAC1653D1G0NLG-C18	DAC1653D1G0NLGA8	
DAC1653D1G25NLG-C1	DAC1653D1G25NLGA	
DAC1653D1G25NLG-C18	DAC1653D1G25NLGA8	
DAC1653D1G5NLG-C1	DAC1653D1G5NLGA	
DAC1653D1G5NLG-C18	DAC1653D1G5NLGA8	
DAC1653D1G8NLG-C1	DAC1653D1G8NLGA	
DAC1653D1G8NLG-C18	DAC1653D1G8NLGA8	
DAC1658D1G0NLG-C1	DAC1658D1G0NLGA	
DAC1658D1G0NLG-C18	DAC1658D1G0NLGA8	
DAC1658D1G25NLG-C1	DAC1658D1G25NLGA	
DAC1658D1G25NLG-C18	DAC1658D1G25NLGA8	
DAC1658D1G5HN-C1	DAC1658D1G5NLGA	
DAC1658D1G5HN-C18	DAC1658D1G5NLGA8	
DAC1658D1G8NLG-C1	DAC1658D1G8NLGA	
DAC1658D1G8NLG-C18	DAC1658D1G8NLGA8	



Qualification Test Plan and Timeline

Date: 02/09/2013

Product Type: DAC1653D/1658D High-speed high-performance 16-bit dual channel DAC						
Product Options:	DAC1653D & DAC1658D	Process Technology:	CLN65LP, 1P7M			
Package Type:	NLG56 (VFQFP-N 56L)	Fab Location:	TSMC (Taiwan)			
Qual Plan:	QDC-12-01	Assembly Location:	ASE-K (Taiwan)			

Test Descriptions

Test Description	Conditions	Sample Size	Results (rej/ss) or Estimated Completion	Comments
ESD: Human Body Model	JESD22-A114 (JS-001) Classification	3	At least 2.5KV	Complete and pass
ESD: Charged Device Model	JESD22-C101 Classification	3	At least 1.5KV	Complete and pass
Latch-Up	JESD78	6	Class II, Level A 3 pulses	Complete and pass
Electrical Characterization	JESD86	10	October 31, 2013	In-progress
High Temperature Operating Life	JESD22-A108, Vcc _{max} , Tj +150°C, 1000 hrs	77 77 77	Done (0/77) Done (0/77) Done (0/77)	Complete and pass
Early Life Failure Rate	JESD22-A108, Vcc _{max} , Tj +150°C, 48 hrs	840	October 31, 2013	In-progress
Temperature Cycling§	JESD22-A104, -55°C to +125°C, 700 cycles	25 25 25	Done (0/25) Done (0/25) Done (0/25)	Complete and pass
Highly Accelerated Temperature and Humidity stress (Biased)§	JESD22-A110, +130°C, 85% R.H., Vcc _{max} ,96 hrs	25 25 25	Done (0/25) Done (0/25) Done (0/25)	Complete and pass
High Temperature Storage Life	JESD22-A103, +150°C, 1000 hrs	25 25 25	Done (0/25) Done (0/25) Done (0/25)	Complete and pass

[§] With MSL preconditioning per JESD22-A113, MSL 3 (260°C)