

PCN Number:	20170801000	PCN Date:	August 08, 2017
Title:	Datasheet for DAC38RF86, DAC38RF96, DAC38RF87, and DAC38RF97		
Customer Contact:	PCN Manager	Dept:	Quality Services
Change Type:			
<input type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Design
<input type="checkbox"/>	Assembly Process	<input checked="" type="checkbox"/>	Data Sheet
<input type="checkbox"/>	Assembly Materials	<input type="checkbox"/>	Part number change
<input type="checkbox"/>	Mechanical Specification	<input type="checkbox"/>	Test Site
<input type="checkbox"/>	Packing/Shipping/Labeling	<input type="checkbox"/>	Test Process
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Bump Site
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Bump Material
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Bump Process
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Fab Site
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Fab Materials
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Fab Process

Notification Details

Description of Change:

Texas Instruments Incorporated is announcing an information only notification. The product datasheet(s) is being updated as summarized below. The following change history provides further details.



**DAC38RF86, DAC38RF96
DAC38RF87, DAC38RF97**

SLASEF4B – FEBRUARY 2017 – REVISED JULY 2017

Changes from Revision A (April 2017) to Revision B

Page

• Changed the <i>Description</i>	1
• Changed the <i>Device Information</i> table	1
• Changed From: alarm_out_pol To: alm_out_pol in ALARM pin description in the <i>Pin Functions</i> table	7
• Changed the Description of pins A3, A4, A7, A6, A9, A10, A12, F11, F7, G6, G12, H5, H7, J6, J11 in the <i>Pin Functions</i> table	7
• Added description to TXENABLE pin in the <i>Pin Functions</i> table	8
• Changed the MAX value of VEE18N rail in the <i>Absolute Maximum Ratings</i> From: 0.5 V To: 0.3 V	9
• Added "Supply Voltage Range" to the <i>Recommended Operating Conditions</i> table	9
• Added "Reference voltage drift" to the <i>Electrical Characteristics - DC Specifications</i> table	10
• Added Isolation vs Output Frequency plot in Figure 14	22
• Added Isolation vs output frequency plot for DAC38RF87/97 in Figure 30	26
• Changed the MPY values in Table 4	31
• Added MPY value for 16.5x to Table 4	31
• Changed x To: $\sqrt{\quad}$ in the <i>JESD204B Formats for DAC38RFxx</i> table	34
• Changed JESD204B frame format for LMFSHd=84111 in Table 12	35
• Changed JESD204B frame format for LMFSHd=44210 in Table 14	36
• Changed JESD204B frame format for LMFSHd=24410 in Table 16	36
• Changed JESD204B frame format for LMFSHd=44210 in Table 17	36
• Changed JESD204B frame format for LMFSHd=88210 in Table 18	37
• Changed JESD204B frame format for LMFSHd=24410 in Table 19	37
• Changed JESD204B frame format for LMFSHd=48410 in Table 20	37
• Changed JESD204B frame format for LMFSHd=24310 in Table 21	37
• Changed JESD204B frame format for LMFSHd=48310 in Table 22	37
• Changed Table 33	50
• Changed register field programming values for LMFSHd=24410 and 24310 in Table 36	55
• Changed the bit positions of N_M1 register field in Table 37	55
• Changed the bit positions of N_M1' N_M1' (NPRIME_M1) register field in Table 37	55
• Deleted ISFIRCD_ENA and ISFIR_AB regisiter fields. Added ISFIR_ENA register field in <i>Inverse Sinc Filter</i>	57
• Changed the description of DAC PLL alarm in <i>Alarm Monitoring</i>	60
• Changed from BIST_ENA to Reserved in Table 56	80
• Changed from BIST_ZERO to Reserved in Table 56	80
• Changed the description of OUTSUM_SEL field in Table 64	86
• Changed the junction temp and loop filter voltage range for PLL tuning in Figure 150	130

Changes from Original (February 2017) to Revision A	Page
• Changed the Title From: "Dual- or Single-Channel, Single-Ended, 14-bit, 9-GSPS..." To: Dual-Channel, Single-Ended, 14-bit, 6 & 9-GSPS..."	1
• Changed the Description of SYSREF+ From: "LVPECL SYSREF positive input." To: "LVPECL SYSREF positive input, self biased." in the <i>Pin Functions</i> table	8
• Deleted Latency and PLL/VCO parameters from the end of the <i>Electrical Characteristics - DC Specifications</i> table	15
• Changed the <i>Electrical Characteristics - AC Specifications</i> table, and added "0 dBFS" amplitude of input digital data in test conditions	16
• Added the <i>PLL/VCO Electrical Characteristics</i> table	19
• Added JESD204B clock phase register setting to Table 36	55
• Removed descriptions for CLKJESD_DIV register from Table 36	55
• Added JESD204B clock phase register setting to Table 37	55
• Added information about the DAC output total current for various full scale current settings in <i>DAC Fullscale Output Current</i>	62
• Changed Table 125	125
• Changed description of SERDES_REFCLK_DIV register field in Table 126	126
• Changed Bit 12:11, 6:5 and 4:2 of Table 129	128

The datasheet number will be changing.

Device Family	Change From:	Change To:
DAC38RF86, DAC38RF96, DAC38RF87, and DAC38RF97	SLASEF4	SLASEF4B

These changes may be reviewed at the datasheet links provided.

<http://www.ti.com/product/DAC38RF86>

Reason for Change:

To accurately reflect device characteristics.

Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative):

No anticipated impact. This is a specification change announcement only. There are no changes to the actual device.

Changes to product identification resulting from this PCN:

None.

Product Affected:

DAC38RF86IAAV	DAC38RF86IAAVR	DAC38RF87IAAV	DAC38RF87IAAVR
DAC38RF96IAAV	DAC38RF96IAAVR	DAC38RF97IAAV	DAC38RF97IAAVR

For questions regarding this notice, e-mails can be sent to the regional contacts shown below or your local Field Sales Representative.

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