

PCN Number:	20150105001	PCN Date:	01/13/2015
Title:	Datasheet update for LMK0480x		
Customer Contact:	PCN Manager	Phone :	
Change Type:		Dept:	Quality Services
<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

PCN Details

Description of Change:

Texas Instruments Incorporated is announcing an information only notification.

The product datasheet(s) is being updated as summarize below.

The following change history provides further details



LMK04803, LMK04805, LMK04806, LMK04808

SNAS489K –MARCH 2011–REVISED DECEMBER 2014

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Changes from Revision J (March 2013) to Revision K	Page
• Changed 90 to 80 and 80 to 90 for $f_{CLKout-startup}$ parameter in Electrical Characteristics	11
• Added "Specification is not valid for CLKoutX or CLKoutY in analog delay mode" in table note for <i>Electrical Characteristics</i>	11
• Changed "Temperature" to "Ambient Temperature" in heading titled "Charge Pump Output Current Magnitude Variation vs. Ambient Temperature"	15
• Added "temporarily" in VCXO/CRYSTAL Buffered Outputs	18
• Changed from "n possible" to "D possible" in <i>0-Delay</i>	20
• Changed "can" to "cannot" in Input Clock Switching - Pin Select Mode	24
• Deleted Clock Switch Event without Holdover in Clock Switch Event with Holdover	25
• Added paragraph beginning "For applications ..." in PLL2 Frequency Doubler	29
• Changed 5 to 15 in Table 11	42
• Deleted Mode 5 row in Table 12	43
• Added Mode 15 Additional Configurations section	46
• In Table 16 , added [27:26], [23:22], and [21:20] for Register 27 row. Added [31:20] for R28. Added [26:24] for R30. Added [7:6].	51
• In Table 18 , changed "Actual PLL2 N divider value used in calibration routine". Added footnote "Inversion for Status 0 and 1 pins is only valid for CLKin_SELECT_MODE = 0x06"	56
• In Table 28 , added "to reduce supply..." footnote for 9 through 14. Added footnote "To reduce supply switching and crosstalk noise, it is recommended to use a complementary LVCMOS output type such as 6 or 7".	64
• Added footnote "To reduce supply" for 8 through 14 in Table 32	66
• Changed "Divide" to "Definition" in Table 39 , Table 40 , Table 61 , and Table 62	68
• Changed to "MUX OUTPUT" in Table header row in Table 42	69
• In Table 43 , added footnote, "Contact TI Applications for more information on using this mode". Changed to "Dual	

Revision History (continued)

PLL, External VCO (Fin), 0-Delay" for 15 (0x0F) 70

- Added "Inversion for Status 0 and 1 pins is only valid for CLKin_SELECT_MODE = 0x06" in *CLKin_Sel_INV* 78
- In *FORCE_HOLDON*, added "(EN_TRACK = 0 or 1, EN_MAN_DAC = 1)". Added "(EN_TRACK = 1, EN_MAN_DAC = 0, EN_VTUNE_RAIL_DET = 0)" 82
- Changed to R[23:14] in *DAC_CNT* 83
- In Table 90, added (0x0000), (0x0001), (0x0002), (0x0003). Changed "Divide" to "Value" in the header row 87
- Added (0x00) through (0x04) in Table 91 88
- Added *PLL2 Frequency Doubler* 88
- Changed from "Divide" to "Value" in Table 95 89
- Added *PLL2 Frequency Doubler* reference in Table 103 92
- Added note "Unless in 0-delay..." in *PLL2_N_CAL, PLL2 N Calibration Divider* 93
- Changed "Mode_MUX1" to "VCO_MUX" in *PLL2_P, PLL2 N Prescaler Divider* 94
- Changed "register" to "Defintion" in table header row for Table 110 95
- Updated *Minimum Digital Lock Detect Time Calculation Example* 107
- Added "Performance of other LMK0480x devices will be similar" in *Optional Crystal Oscillator Implementation (OSCin/OSCin*)* 110
- Changed to "(fs rms)" in Table 125 111
- Added text in red for Figure 40 123
- In *Vcc2, Vcc3, Vcc10, Vcc11, Vcc12, Vcc13 (CLKout Vccs)*, added bullet point starting with "It is recommended..." Changed ≤ 10 MHz to ≤ 30 MHz 125
- Added paragraph "It is recommended..." in *Vcc5 (CLKin and OSCout1), Vcc7 (OSCin and OSCout0)* 126
- Added Mode = 15. Removed Mode = 5 in Table 127 127
- Deleted "of about 2 square inches" in *Layout Guidelines* 129

The datasheet number will be changing.

Device Family	Change From:	Change To:
LMK0480x	SNAS489J	SNAS489K

These changes may be reviewed at the datasheet links provided.

<http://www.ti.com/product/lmk04803>

Reason for Change:

To more accurately reflect device characteristics.

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

Electrical specification performance changes as indicated above.

Changes to product identification resulting from this PCN:

None.

Product Affected:

LMK04803BISQ/NOPB	LMK04805BISQX/NOPB	LMK04808BISQE/NOPB	LMK04808DISQ/NOPB
LMK04803BISQE/NOPB	LMK04806BISQ/NOPB	LMK04808BISQX/NOPB	LMK04808DISQE/NOPB
LMK04803BISQX/NOPB	LMK04806BISQE/NOPB	LMK04808CISQ/NOPB	LMK04808DISQX/NOPB
LMK04805BISQ/NOPB	LMK04806BISQX/NOPB	LMK04808CISQE/NOPB	
LMK04805BISQE/NOPB	LMK04808BISQ/NOPB	LMK04808CISQX/NOPB	

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