



Product/Process Change Notice - PCN 21_0135 Rev. -

Analog Devices, Inc. One Analog Way, Wilmington, MA 01887

This notice is to inform you of a change that will be made to certain ADI products (see Appendix A) that you may have purchased in the last 2 years. **Any inquiries or requests with this PCN (additional data or samples) must be sent to ADI within 30 days of publication date.** ADI contact information is listed below.

PCN Title: HMC7044 Data Sheet Revision.

Publication Date: 02-Aug-2021

Effectivity Date: 02-Aug-2021 *(the earliest date that a customer could expect to receive changed material)*

Revision Description:

Initial Release

Description Of Change:

The existing HMC7044 device supports two PLL/VCO modes described in Register 0x0001 Bit 5: Power Priority mode and Noise Priority mode. Power Priority mode (default setting of the device) will remain the only valid mode and is recommended for optimal reliability and lifetime for new products in production as well as products already deployed in the field.

Register 0x0001 Bit 5 will change from "High performance PLL/VCO select. The VCO has two modes of operation (0 = Power Priority mode and 1 = Noise Priority mode)" to "Reserved" with a default fixed value of 0.

Reason For Change:

Power priority mode offers optimal performance, power consumption and reliability. Power Priority mode offers similar performance benefits compared to the Noise Priority mode. As a result, the support of Power Priority mode only is sufficient. Power priority mode also offers best reliability for the device. Noise Priority operation may lead to an increase in LDOBYP4 voltage resulting in phase noise performance degradation long term.

Impact of the change (positive or negative) on fit, form, function & reliability:

No change to fit and form of the device.

Summary of Supporting Information:

Refer to Product Data Sheet Rev C for the latest changes.

Supporting Documents None

For questions on this PCN, please send an email to the regional contacts below or contact your local ADI sales representatives.

Americas:
PCN_Americas@analog.com

Europe:
PCN_Europe@analog.com

Japan:
PCN_Japan@analog.com

Rest of Asia:
PCN_ROA@analog.com

Appendix A - Affected ADI Models

Added Parts On This Revision - Product Family / Model Number (4)

| | | | | |
|-----------------------|-------------------------|-------------------------|---------------------------|--|
| HMC7044 / AD45273BCPZ | HMC7044 / AD45273BCPZRL | HMC7044 / HMC7044LP10BE | HMC7044 / HMC7044LP10BETR | |
|-----------------------|-------------------------|-------------------------|---------------------------|--|

Appendix B - Revision History

| Rev | Publish Date | Effectivity Date | Rev Description |
|------------|---------------------|-------------------------|------------------------|
| Rev. - | 02-Aug-2021 | 02-Aug-2021 | Initial Release |

Analog Devices, Inc.

DocId:8570 Parent DocId:None Layout Rev:7