Product/Process Change Notice - PCN 24_0049 Rev. -

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

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:	HMC997 Data Sheet Limit Change
Publication Date:	28-Mar-2024
Effectivity Date:	30-Apr-2024 *(the earliest date that a customer could expect to receive changed material)*
Revision Description:	Initial Release.

Description Of Change:

Absolute Maximum Ratings - raise the maximum input power from +5 dBm to +20 dBm.

Reason For Change:

The data sheet is being changed to reflect device capabilities.

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

The change described above has no impact on fit, form or functionality of the device. Product data sheet correction only. There is no change to the product design.

Summary of Supporting Information:

Data sheet HMC997G REV v03.0424 will reflect the maximum input power update to+20 dBm. See attachment1 for data sheet comparison.

Supporting Documents

Attachment 1: Type: Datasheet Specification Comparison

ADI_PCN_24_0049_Rev_-_Data Sheet Comparison.pdf...

Note: If applicable, the device material declaration will be updated due to material change.

ADI Contact Information:

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

Americas:	Europe:	Japan:	Korea:	Rest of Asia:
PCN_Americas@analog.com	PCN_Europe@analog.com	PCN_Japan@analog.com	PCN_Korea@analog.com	PCN_ROA@analog.com

Appendix A - Affected ADI Models:

Added Parts On This Revision - Product Family / Model Number (3)

HMC997G / HMC997LC4	HMC997G / HMC997LC4TR	HMC997G / HMC997LC4TR-R5

Appendix B - Revision History:			
Rev	**Publish Date**	**Effectivity Date**	**Rev Description**
Rev. -	28-Mar-2024	30-Apr-2024	Initial Release.

HMC997 Data Sheet Limit Change Comparison

HMC997 Data Sheet Limit Change

AMPLIFIER - SMT

Existing REV v02.0514

ANALOG DEVICES

RoHS✓ EARTH FRIENDLY

HMC997LC4

v02.0514

VARIABLE GAIN AMPLIFIER 17 - 27 GHz

Absolute Maximum Ratings

Drain Bias Voltage (Vdd1, 2, 3)	+5.5V
Gate Bias Voltage (Vgg1, 2)	-3 to 0V
Gain Control Voltage (Vctrl)	-5 to 0V
RF Power Input (RFIN)	+5 dBm
Channel Temperature	175 °C
Continuous Pdiss (T = 85 °C) (derate 10.2 mW/°C above 85 °C) [1]	0.92 W
Thermal Resistance (Channel to ground paddle)	97.6 °C/W
Storage Temperature	-65 to +150 °C
Operating Temperature	-40 to +85 °C
ESD Sensitivity (HBM)	Class 0 Passed 100V

Bias Voltage

Vdd1,2,3 (V)	Idd Total (mA)
+5V	170
Vgg1,2 (V)	Igg Total (mA)
0V to -2V	<0.1 mA

ELECTROSTATIC SENSITIVE DEVICE
OBSERVE HANDLING PRECAUTIONS

New REV v03.0424

ANALOG DEVICES

RoHS✓ EARTH FRIENDLY

HMC997LC4

v03.0424

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