



Product/Process Change Notice - PCN 15_0103 Rev. -

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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: ADL5513 QMLV Aerospace Device Specification Changes and Corrections
Publication Date: 01-May-2015
Effectivity Date: 01-May-2015 *(the earliest date that a customer could expect to receive changed material)*

Revision Description:

Initial Release

Description Of Change

The following changes are being made to the Standard Microcircuit Drawing 5962-11203. These changes apply to the QML Class V version only.

- *Changed "Dynamic Range" units in Section 1.4.1 from dBm to dB.
- *Changed RFin units for Vout voltage and "Deviation from log linear" from dB to dBm at all conditions.
- *Changed RFin units for Vout voltage and "Quiescent supply current" from dB to dBm at all conditions.
- *Re-formatted Deviation from log linear specification at all conditions.
- *Removed M,D,P,L,R from Current source/sink spec at Vpos = 2.7V.
- *Updated Terminal symbol nomenclature from NC to NC/GND for pins 1,2,8,10,15.
- *Updated note 1 for Figure 1.
- *Tightened Vout Voltage limits

Frequency = 100MHz

VPOS = 5V

RFin = 10dBm Subgroup 5,6 from min = 0/ max = 2.65 to min = 1.45/ max = 1.81

RFin = 30dBm Subgroup 4,5,6 from min = 0/ max = 2.65 to min = 1.03/ max = 1.39

RFin = 50dBm Subgroup 4,5,6 from min = 0/ max = 2.65 to min = 0.59/ max = 0.99

VPOS = 2.7V

RFin = 10dBm Subgroup 4,5,6 from min = 0/ max = 2.65 to min = 1.43/ max = 1.79

RFin = 30dBm Subgroup 4,5,6 from min = 0/ max = 2.65 to min = 0.93/ max = 1.43

RFin = 50dBm Subgroup 4,5,6 from min = 0/ max = 2.65 to min = 0.59/ max = 0.95

Frequency = 900MHz

VPOS = 5.0V

RFin = 10dBm Subgroup 4,5,6 from min = 0/ max = 2.65 to min = 1.6/ max = 1.96

RFin = 30dBm Subgroup 4,5,6 from min = 0/ max = 2.65 to min = 1.18/ max = 1.54

RFin = 50dBm Subgroup 4,5,6 from min = 0/ max = 2.65 to min = 0.72/ max = 1.08

VPOS = 2.7V

RFin = 10dBm Subgroup 4,5,6 from min = 0/ max = 2.65 to min = 1.58/ max = 1.94

RFin = 30dBm Subgroup 4,5,6 from min = 0/ max = 2.65 to min = 1.16/ max = 1.52

RFin = 50dBm Subgroup 4,5,6 from min = 0/ max = 2.65 to min = 0.71/ max = 1.07

Frequency = 2140MHz

VPOS = 5.0V

RFin = 10dBm Subgroup 4,5,6 from min = 0/ max = 2.65 to min = 1.34/ max = 1.84

RFin = 30dBm Subgroup 4,5,6 from min = 0/ max = 2.65 to min = 0.91/ max = 1.41

RFin = 50dBm Subgroup 4,5,6 from min = 0/ max = 2.65 to min = 0.53/ max = 1.03

VPOS = 2.7V

RFin = 10dBm Subgroup 4,5,6 from min = 0/ max = 2.65 to min = 1.33/ max = 1.83

RFin = 30dBm Subgroup 4,5,6 from min = 0/ max = 2.65 to min = 0.89/ max = 1.39

RFin = 50dBm Subgroup 4,5,6 from min = 0/ max = 2.65 to min = 0.49/ max = 0.98

Frequency = 4000MHz

VPOS = 5.0V
RFin = 10dBm Subgroup 4,5,6 from min = 0/ max = 2.65 to min = 1.51/ max = 1.88
RFin = 30dBm Subgroup 4,5,6 from min = 0/ max = 2.65 to min = 1.05/ max = 1.41
RFin = 50dBm Subgroup 4,5,6 from min = 0/ max = 2.65 to min = 0.51/ max = 0.87
VPOS = 2.7V
RFin = 10dBm Subgroup 4,5,6 from min = 0/ max = 2.65 to min = 1.49/ max = 1.86
RFin = 30dBm Subgroup 4,5,6 from min = 0/ max = 2.65 to min = 1.03/ max = 1.39
RFin = 50dBm Subgroup 4,5,6 from min = 0/ max = 2.65 to min = 0.5/ max = 0.86

Reason For Change

Updating datasheet to accurately reflect device capabilities. There is no change to the product design.

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

There is no change in the product design or operation of the device therefore there will be no impact on the fit, form, function and reliability of the device.

Product Identification *(this section will describe how to identify the changed material)*

Not Applicable.

Summary of Supporting Information

Extensive inventory build data has been reviewed to ensure the validity of revised specifications. Changes are implemented in Rev.B of the ADL5513 standard microcircuit drawing 5962-11203, attached.

Supporting Documents

Attachment 1: Type: Revised Datasheet Specification

ADI_PCN_15_0103_Rev_-_11203 Rev B ADI inputs4_23_15.pdf

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

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Appendix A - Affected ADI Models

Added Parts On This Revision - Product Family / Model Number (2)

ADL5513S / 5962R1120301VXA

ADL5513S / ADL5513AF-EMX

Appendix B - Revision History

Rev	Publish Date	Effectivity Date	Rev Description
Rev. -	01-May-2015	01-May-2015	Initial Release

Analog Devices, Inc.

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