

# Evaluation Board Design Information

## INTRODUCTION

This design package contains the electronic information for the design, layout, fabrication and assembly of the EV-ADF70301-xxxxZ evaluation boards as well as the ADUCM3029 mother board and LCD shield.

This information is provided for reference only. Analog Devices is not responsible for any errors that may be contained in the information.

This information is only provided in the formats described below and not available in any other formats.

## PACKAGE CONTENTS

**Table 1.**

Folder Name	Board	Folder Contents
aducm3029-ezkit-board-design-database	ADuCM3029 EZ-Kit mother board	See aducm3029-ezkit-board-design-database\Readme.pdf
EV-ADF70301-169BZ	EV-ADF70301-169BZ	See Table 2
EV-ADF70301-433AZ-460BZ-868BZ-915AZ	EV-ADF70301-433AZ EV-ADF70301-460BZ EV-ADF70301-868BZ EV-ADF70301-915AZ	See Table 2
LCD-Adapter	LCD-Adapter shield	See Table 2

**Table 2. Folder Contents**

Folder Name	Sub folder	Description
bom		Bill of Materials
physical	art\assy art\fab art\online	PCB layout file created from Mentor Graphics PADS Assembly details including BOM and schematic Fabrication details including Gerber files Additional details
sch_1		Schematic file created from Mentor Graphics PADS

## ADF7030-1 DAUGHTER BOARDS

### LAYOUTS

**Table 3. Layouts**

Parameter	Value	Unit
ADF703x40Sxxx	A	40-pin LFCSP with separate PA1, PA2 and LNA match. Suitable for 433, 460, 868, 915MHz bands
ADF703x40S169	A	40-pin LFCSP with separate PA1, PA2 and LNA match. Specifically for 169MHz as it includes extra harmonic filtering

### DESCRIPTION AND BOM REVISION

**Table 4**

Model	ADF7030-1 Package Type	RF Match Frequency Range (MHz)	26 MHz Reference Oscillator Type	Matching Topology	BOM Rev	Frequency of Included Antenna (MHz)	Printed Circuit Board (PCB) Layout
EV-ADF70301-915AZ	40-pin LFCSP	862 to 928	XTAL	Separate PA and LNA match	B	902 to 928	ADF703x40Sxxx



EV-ADF70301-868BZ	40-pin LFCSP	862 to 928	TCXO	Separate PA and LNA match	B	863 to 876	ADF703x40S xxx
EV-ADF70301-460BZ	40-pin LFCSP	450 to 470	TCXO	Separate PA and LNA match	B	Not included	ADF703x40S xxx
EV-ADF70301-433AZ	40-pin LFCSP	433 to 434	XTAL	Separate PA and LNA match	B	433 to 434	ADF703x40S xxx
EV-ADF70301-169BZ	40-pin LFCSP	169	TCXO	Separate PA and LNA match	B	Not included	EV-ADF70301-169