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RedyKits for the ADP160 and ADP162 Ultralow I_Q Low Dropout (LDO) Regulator

FEATURES

Several voltage options for evaluation

Surface-mount **ADP160** and **ADP162** parts that can be easily soldered

Additional parts for prototyping

ADP160UJZ-REDYKIT CONTENTS

1 ADP160-1.8-EVALZ evaluation board, V_{OUT} = 1.8 V

1 ADP160-3.3-EVALZ evaluation board, V_{OUT} = 3.3 V

8 ADP160 additional voltage options in a labeled bag

ADP162UJZ-REDYKIT CONTENTS

1 ADP162-3.3-EVALZ evaluation board, V_{OUT} = 3.3 V

1 ADP162-4.2-EVALZ evaluation board, V_{OUT} = 4.2 V

7 ADP162 additional voltage options in a labeled bag

GENERAL DESCRIPTION

The ADP160UJZ-REDYKIT™ and ADP162UJZ-REDYKIT allow simplified prototyping and evaluation. They are available for several standard fixed output voltage option in the ADP160 and ADP162 product families, which allows the user to evaluate the voltage options with tow easy-to-order kits. All surface-mount ADP160 and ADP162 parts come sorted and stored in the kits with the Analog Devices, Inc., part number and fixed output voltage clearly printed on each zip-top bag (see Figure 1).

The kits can be used in the engineering lab to evaluate required voltage options. If other voltage options must be evaluated, a different part from the kits can be easily soldered onto one of the evaluation boards supplied with the kits.

The ADP160UJZ-REDYKIT is available with fixed 3.3 V and 1.8 V evaluation boards. The ADP162UJZ-REDYKIT is available with fixed 3.3 V and 4.2 V evaluation boards. The kits also contain additional parts for prototyping. The kit enclosure, which contains individually packaged parts and the two evaluation boards, is packaged in an ESD foam pad inside of a treated cardboard box that measures 8.7" (L) × 7.9" (W) × 1.75" (H), that is, 22 cm (L) × 20 cm (W) × 4.5 cm (H).

The ADP160 and ADP162 evaluation board user guide, UG-117, can be found at www.analog.com.



Figure 1. ADP160UJZ-REDYKIT Package



Figure 2. ADP162UJZ-REDYKIT Package

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REVISION HISTORY

12/10—Rev. A to Rev. B

Added ADP162-3.3-EVALZ Throughout Universal
 Changes to Figure 2..... 1

11/10—Rev. 0 to Rev. A

Replaced ADP161 with ADP162 Throughout Universal
 Changes to Figure 1..... 1
 Added Figure 2 and Renumbered Sequentially..... 1
 Added Table 2..... 5

6/10—Revision 0: Initial Version

EVALUATION BOARD SCHEMATIC AND LAYOUT

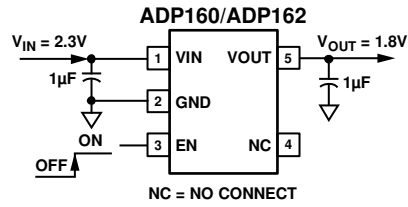


Figure 3. Typical ADP160/ADP162 Application Circuit

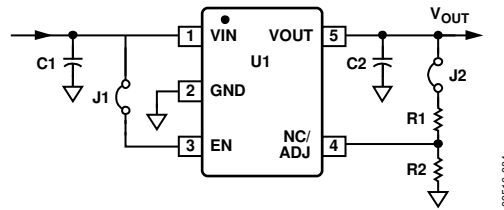


Figure 4. Evaluation Board Schematic

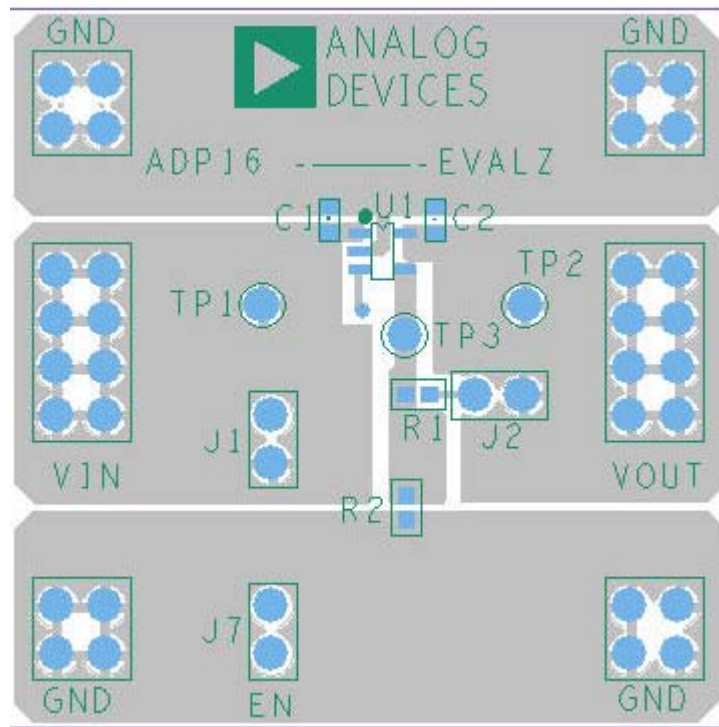


Figure 5. Evaluation Board Layout

BILL OF MATERIALS

Table 1. ADP160UJZ-REDYKIT

Quantity	Model	Output Voltage (V)	Maximum Current (mA)	Description
1	ADP160-1.8-EVALZ	1.8	150	Evaluation board
1	ADP160-3.3-EVALZ	3.3	150	Evaluation board
3	ADP160-AUJZ-1.2-R7	1.2	150	5-lead TSOT
3	ADP160-AUJZ-1.5-R7	1.5	150	5-lead TSOT
3	ADP160-AUJZ-1.8-R7	1.8	150	5-lead TSOT
3	ADP160-AUJZ-2.5-R7	2.5	150	5-lead TSOT
3	ADP160-AUJZ-2.8-R7	2.8	150	5-lead TSOT
3	ADP160-AUJZ-3.0-R7	3.0	150	5-lead TSOT
3	ADP160-AUJZ-3.3-R7	3.3	150	5-lead TSOT
3	ADP160-AUJZ-4.2-R7	4.2	150	5-lead TSOT

Table 2. ADP162UJZ-REDYKIT

Quantity	Model	Output Voltage (V)	Maximum Current (mA)	Description
1	ADP162-3.3-EVALZ	3.3	150	Evaluation board
1	ADP162-4.2-EVALZ	4.2	150	Evaluation board
3	ADP162-AUJZ-1.5-R7	1.5	150	5-lead TSOT
3	ADP162-AUJZ-2.5-R7	2.5	150	5-lead TSOT
3	ADP162-AUJZ-2.7-R7	2.7	150	5-lead TSOT
3	ADP162-AUJZ-2.8-R7	2.8	150	5-lead TSOT
3	ADP162-AUJZ-3.0-R7	3.0	150	5-lead TSOT
3	ADP162-AUJZ-3.3-R7	3.3	150	5-lead TSOT
3	ADP162-AUJZ-4.2-R7	4.2	150	5-lead TSOT



ESD Caution

ESD (electrostatic discharge) sensitive device. Charged devices and circuit boards can discharge without detection. Although this product features patented or proprietary protection circuitry, damage may occur on devices subjected to high energy ESD. Therefore, proper ESD precautions should be taken to avoid performance degradation or loss of functionality.

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