

RedyKit User Guide

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RedyKit[™] for the ADP2503 Buck-Boost Converter

FEATURES

All-voltage option for evaluation
Surface-mount ADP2503 parts that can be easily soldered
Additional parts for prototyping

ADP2503CPZ-REDYKIT CONTENTS

1 each ADP2503-3.3-EVALZ evaluation board V_{OUT} 3.3 V 1 each ADP2503-5.0-EVALZ evaluation board V_{OUT} 5.0 V 3 each ADP2503 voltage options in a labeled bag



Figure 1. ADP2503CPZ-REDYKIT

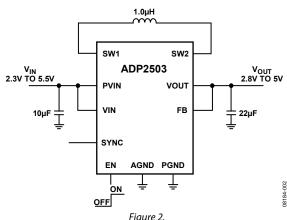
GENERAL DESCRIPTION

The ADP2503CPZ-REDYKIT allows simplified prototyping and evaluation and is available for every standard fixed output voltage option in the ADP2503 product family. The kit allows the user to evaluate the voltage options with one easy to order kit.

All surface-mount ADP2503 parts come sorted and stored in the kit with the Analog Devices, Inc., part number and fixed output voltage clearly printed on each zip-top bag (see Figure 5).

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

TYPICAL APPLICATION CIRCUIT



The ADP2503CPZ-REDYKIT is available with fixed 3.3 V and 5.0 V evaluation boards. The kit also contains 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 a treated cardboard box that measures 8.7" (L) \times 7.9" (W) \times 1.75"(H), that is, 22 cm (L) \times 20 cm (W) \times 4.5 cm (H).

The ADP2503 evaluation board data sheet, EVAL-ADP2503/ADP2504, can be found at www.analog.com.

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REVISION HISTORY

6/10—Rev. 0 to Rev. A	
Added RedyKit Trademark	Universal
Changes to Figure 2	1

7/09—Revision 0: Initial Version

EVALUATION BOARD SCHEMATIC AND LAYOUT

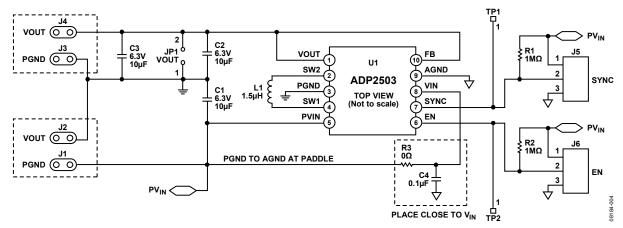


Figure 3. Evaluation Board Schematic

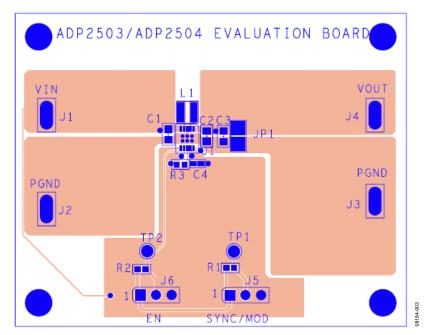


Figure 4. Evaluation Board Layout

REDYKIT BILL OF MATERIALS

Table 1.

Qty	Model	Voltage	Maximum Current	Description
1	ADP2503-3.3-EVALZ	V _{OUT} 3.3 V	N/A ¹	Evaluation board
1	ADP2503-5.0-EVALZ	V _{оит} 5.0 V	N/A ¹	Evaluation board
3	ADP2503ACPZ-2.8-R7	2.8 V	0.6 A	10-lead lead frame chip scale package (LFCSP_WD)
3	ADP2503ACPZ-3.3-R7	3.3 V	0.6 A	10-lead lead frame chip scale package (LFCSP_WD)
3	ADP2503ACPZ-3.5-R7	3.5 V	0.6 A	10-lead lead frame chip scale package (LFCSP_WD)
3	ADP2503ACPZ-4.2-R7	4.2 V	0.6 A	10-lead lead frame chip scale package (LFCSP_WD)
3	ADP2503ACPZ-4.5-R7	4.5 V	0.6 A	10-lead lead frame chip scale package (LFCSP_WD)
3	ADP2503ACPZ-5.0-R7	5.0 V	0.6 A	10-lead lead frame chip scale package (LFCSP_WD)

¹ N/A is not applicable.



Figure 5. ADP2503CPZ-REDYKIT Contents



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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