

RedyKit User Guide

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RedyKits for the ADP124 Low Dropout (LDO) Linear Regulator

FEATURES

Several voltage options for evaluation
Surface-mount ADP124 8-lead, exposed pad MSOP and
LFCSP parts that can be easily soldered to the evaluation
boards

Additional parts for prototyping

ADP124RHZ-REDYKIT CONTENTS

1 ADP124-3.3-EVALZ MSOP evaluation board with 3.3 V output 7 ADP124 MSOP voltage options in a labeled bag

ADP124CPZ-REDYKIT CONTENTS

- 1 ADP124CP-3.3-EVALZ LFCSP evaluation board with 3.3 V output
- 3 ADP124 LFCSP voltage options in a labeled bag

GENERAL DESCRIPTION

The ADP124RHZ-REDYKIT[™] and ADP124CPZ-REDYKIT allow simplified prototyping and evaluation and is available for several standard fixed output voltage options in the ADP124 product family. The kits allow the user to evaluate the voltage options with two easy to order kits.

All surface-mount ADP124 parts are sorted and stored in the kits with the Analog Devices, Inc., part number and fixed output voltage clearly printed on each zip-top bag.

The kits can be used in the engineering lab to evaluate different 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 each kit.

The ADP124RHZ-REDYKIT is available with a fixed 3.3 V output voltage evaluation board. The ADP124CPZ-REDYKIT is available with a fixed 3.3 V output voltage evaluation board. The kits also contain additional parts for prototyping.

The kit enclosure, which contains individually packaged parts and the evaluation board, 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 user guide for the ADP124 evaluation boards is the UG-056.



Figure 1. ADP124RHZ-REDYKIT Evaluation Kit



Figure 2. ADP124CPZ-REDYKIT Evaluation Kit

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3/11—Rev. C to Rev. D
Changes to Figure 1 and Figure 21
2/11—Rev. B to Rev. C
Added ADP124ARHZ-2.7-R7, ADP124ARHZ-2.8-R7, ADP124ARHZ-2.85-R7, and ADP124ARHZ-2.9-R7Universal Changes to Figure 2
12/10—Rev. A to Rev. B
Added ADP124CP REDYKIT ThroughoutUniversal Added Figure 2 and Renumbered Sequentially
9/10—Rev. 0 to Rev. A
Added ADP125 and LFCSP ThroughoutUniversal Changes to Features and ADP124RHZ-RedyKit Contents Sections
Deleted Figure 2; Renumbered Sequentially
Changes to Bill of Materials Section

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EVALUATION BOARD LAYOUT AND CIRCUIT DIAGRAM

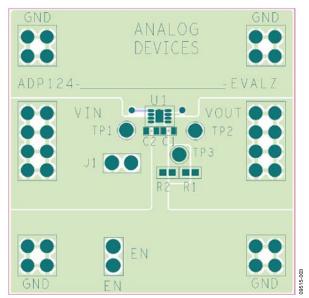


Figure 3. ADP124 MSOP Evaluation Board Layout

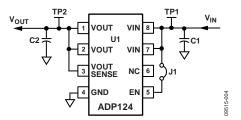


Figure 4.ADP124 Evaluation Board Circuit Diagram, MSOP

Figure 5. ADP124 PCB Layout, LFCSP

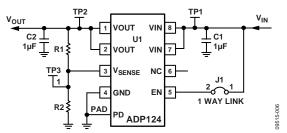


Figure 6. ADP124 Evaluation Board Schematic, LFCSP

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ORDERING INFORMATION

BILL OF MATERIALS

Table 1. ADP124RHZ-REDYKIT

\sim	МТ	EV	ITC

Qty	Model	Output Voltage (V)	Description
3	ADP124ARHZ-1.8-R7	1.8	8-Lead MINI_SO_EP
3	ADP124ARHZ-2.5-R7	2.5	8-Lead MINI_SO_EP
3	ADP124ARHZ-2.7-R7	2.7	8-Lead MINI_SO_EP
3	ADP124ARHZ-2.8-R7	2.8	8-Lead MINI_SO_EP
3	ADP124ARHZ-2.85-R7	2.85	8-Lead MINI_SO_EP
3	ADP124ARHZ-2.9-R7	2.9	8-Lead MINI_SO_EP
3	ADP124ARHZ-3.0-R7	3.0	8-Lead MINI_SO_EP
1	ADP124-3.3-EVALZ	3.3	MSOP evaluation board

Table 2. ADP124CPZ-REDYKIT

Qty	Model	Output Voltage (V)	Description
3	ADP124ACPZ-1.8-R7	1.8	8-Lead LFCSP_UD
3	ADP124ACPZ-2.8-R7	2.8	8-Lead LFCSP_UD
3	ADP124ACPZ-3.0-R7	3.0	8-Lead LFCSP_UD
1	ADP124CP-3.3-EVALZ	3.3	LFCSP evaluation board



Figure 7. ADP124RHZ-REDYKIT Contents

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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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