DEMO MANUAL DC330B

LT1761 100mA Low Noise Micropower LDO Regulator

DESCRIPTION

Demonstration circuit DC330 comprises two low noise micropower voltage regulators using the LT®1761 in the 5-lead SOT-23 package. These circuits are primarily used in cellular phones, voltage controlled oscillators, RF power supplies and as local regulators in larger systems. Their ability to tolerate a wide variety of output capacitors makes them ideal in space- and cost-sensitive systems.

ADDENDUM

DC330 Summary and Background

Starting around February 2021, the LT1761 demonstration circuit was changed from DC330A which used obsolete 1mm jumpers to set the output voltages to DC330B which used non-obsolete 2mm jumpers for the same purpose. The change was necessary to complete a rebuild and the rebuild was normal other than the change to the jumpers so there weren't any additional changes to the hardware except to shift component placements so the new jumpers would fit. It is possible to do a DC330A versus DC330B comparison because the DC330A version demo manual

includes a schematic, layer drawings, fabrication drawing and a parts list that can be compared to the design files for DC330B. Specifically, the changes between DC330A and DC330B are:

- Schematic: The jumpers to set the output voltages were redrawn. No reference designators changed. The title block was updated.
- 2. **Layer Drawings:** The silkscreen for the top layer was updated for the latest company logo and some component placements shifted to fit the larger jumpers that set the output voltages.
- 3. **Fabrication Drawing:** The fabrication drawing was updated to the latest drafting standards.
- 4. **Parts List**: No change was made to the parts list except the jumpers to set the output voltages were changed and part numbers were updated according to the normal procedure for rebuilds.

Design files for this circuit board are available.

All registered trademarks and trademarks are the property of their respective owners.

DEMO MANUAL DC330B



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.

Legal Terms and Conditions

By using the evaluation board discussed herein (together with any tools, components documentation or support materials, the "Evaluation Board"), you are agreeing to be bound by the terms and conditions set forth below ("Agreement") unless you have purchased the Evaluation Board shall signify your acceptance of the Agreement is made by and between you ("Customer") and Analog Devices, Inc. ("ADI"), with its principal place of business at One Technology Way, Norwood, MA 02062, USA. Subject to the terms and conditions of the Agreement, ADI hereby grants to Customer a free, limited, personal, temporary, non-exclusive, non-sublicensable, non-transferable license to use the Evaluation Board For EVALUATION PURPOSES ONLY. Customer understands and agrees that the Evaluation Board is provided for the sole and exclusive purpose referenced above, and agrees not to use the Evaluation Board for any other purpose. Furthermore, the license granted is expressly made subject to the following additional limitations: Customer shall not (i) rent, lease, display, sell, transfer, assign, sublicense, or distribute the Evaluation Board. As used herein, including ownership of the Evaluation Board, as used herein, including ownership of the Evaluation Board, and in-house consultants. The Evaluation Board is considered the conflidential and proprietary information of ADI. Customer may not disclose or transfer any portion of the Evaluation Board to any other party for any reason. Upon discontinuation of use of the Evaluation Board or termination of this Agreement, Customer agrees to promptly return the Evaluation Board to ADI. ADDITIONAL RESTRICTIONS. Customer may not disassemble, decompile or reverse engineer chips on the Evaluation Board. Customer agrees to promptly return the Evaluation Board to ADI. ADDITIONAL RESTRICTIONS. Customer may not disassemble, decompile or reverse engineer chips on the Evaluation Board. Customer agrees to promptly return the Evaluation Board to ADI. ADDITIONAL RESTRICTIONS. Customer may not disassemble, decomp

Rev. 0