LTC3530

## DESCRIPTION

Demonstration circuit 938 is a micropower synchronous buck-boost converter based on the LTC3530 monolithic buck-boost regulator. The DC938 has an input voltage range of 1.8 V to 5.5V and an output of 3.3V @ 500mA. The converter can work under manual or programmable automatic burst mode, providing high conversion efficiency over a wide range of load currents. The LTC3530 comes in a 10 lead 3×3

DFN package. These features make the DC938 demo board an ideal circuit for use in Li-Ion and dual cell AA (Alkaline/NiCad/NiMH) battery-powered, handheld applications.

Design files for this circuit board are available. Call the LTC factory.

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## **QUICK START PROCEDURE**

Refer to Figure 1 for proper measurement equipment setup and follow the procedure below:

- 1. Start with Load set to 0A.
- 2. Set Power Supply to ~ 3Vin

- 3. The Load can be set from 0 500mA.
- 4. Vin can be adjusted between 1.8V and 5.5V (note however, max output current is lower than 500mA at Vin below 2.2V).

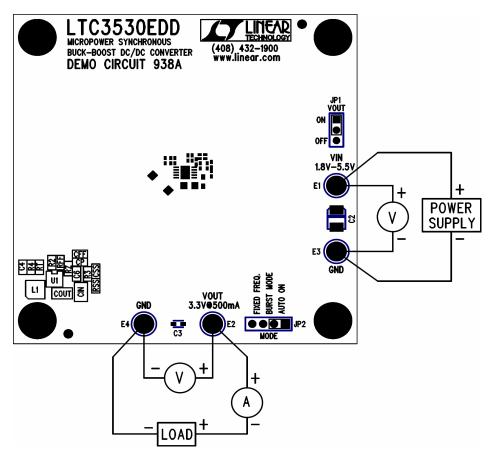


Figure 1. Proper Measurement Equipment Setup



## QUICK START GUIDE FOR DEMONSTRATION CIRCUIT 938 MICROPOWER SYNCHRONOUS BUCK-BOOST DC/DC CONVERTER

