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NCP1400AV19EVB:NCP1400A 1.9 V/100 mA DC - DC Converter Evaluation Board

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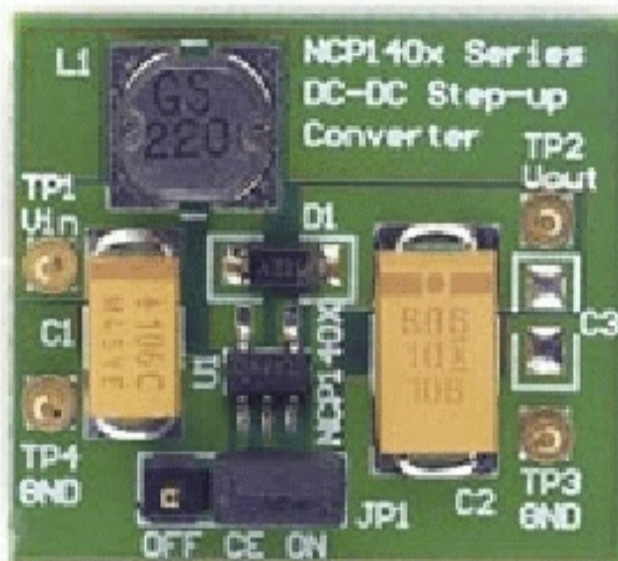
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Evaluation Board Description

The NCP1400A series are micropower step-up DC to DC converters that are specifically designed for powering portable equipment from one or two cell battery packs. These devices are designed to start up with a cell voltage of 0.8 V and operate down to less than 0.2 V. With only four external components, this series allows a simple means to implement highly efficient converters that are capable of up to 100 mA of output current.



Each device consists of an on-chip fixed frequency oscillator, pulse width modulation controller, phase compensated error amplifier that ensures converter stability with discontinuous mode operation, soft-start, voltage reference, driver, and power MOSFET switch with current limit protection. Additionally, a chip enable feature is provided to power down the converter for extended battery life.

The NCP1400A device series are available in the TSOP-5 package with six standard regulated output voltages. Additional voltages that range from 1.8 V to 4.9 V in 100 mV steps can be manufactured.

Features and Applications

Features

- ? Extremely Low StartUp Voltage of 0.8 V
- ? Operation Down to Less than 0.2 V
- ? Only Four External Components for Simple Highly Efficient Converters
- ? Up to 100 mA Output Current Capability
- ? Fixed Frequency Pulse Width Modulation Operation
- ? Phase Compensated Error Amplifier for Stable Converter Operation
- ? Chip Enable Power Down Capability for Extended Battery Life

Evaluation Board Information

Evaluation Board	Short Description	Status	Parts Used	Action
NCP1400AV19EVB	NCP1400A 1.9 V/100 mA DC -DC Converter Evaluation Board	Active	NCP1400ASN19T1G	Contact Local Sales Office

Technical Documents

Type	Document Title	Document ID/Size	Rev
Eval Board: BOM	NCP1400AV19EVB BILL OF MATERIALS	NCP1400AV19EVB_BOM.PDF - 19.0 KB	2
Eval Board: Gerber	NCP1400AV19EVB GERBER LAYOUT FILES (ZIP FORMAT)	NCP1400AV19EVB_GERBER.ZIP - 479.0 KB	2
Eval Board: Schematic	NCP1400AV19EVB SCHEMATIC	NCP1400AV19EVB_SCHEMATIC.PDF - 22.0 KB	2
Eval Board: Test Procedure	NCP1400AV19EVB TEST PROCEDURE	NCP1400AV19EVB_TEST_PROCEDURE.PDF - 87.0 KB	2