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NCP3163INVEVB:NCP3163 - 15 V/ 500 mA Voltage Inverting Evaluation Board

Evaluation Board Description

The NCP3163 Series is a performance enhancement to the popular MC33163 and MC34163 monolithic DC -DC converters. These devices consist of an internal temperature compensated reference, comparator, controlled duty cycle oscillator with an active current limit circuit, driver and high current output switch. This controller was specifically designed to be incorporated in step -down, step -up, or voltage -inverting applications with a minimum number of external components. The NCP3163 comes in an exposed pad package which can greatly increase the power dissipation of the built in power switch.



The NCP3163 Voltage Inverting Demo Board is a 150 kHz maximum switching frequency board with a 12 V input (9 V - 16 V). The output is -15 V with a load current up to 500 mA.

Features and Applications

Features

- ? Output Switch Current in excess of 3.0 A
- ? 3.4 A peak switch current
- ? Frequency is adjustable from 50 kHz to 300 kHz
- ? Operation from 2.5 V to 40 V Input
- ? Externally Adjustable Operating Frequency
- ? Precision 2% Reference for Accurate Output Voltage Control
- ? Driver with Bootstrap Capability for Increased Efficiency
- ? Cycle -by -Cycle Current Limiting
- ? Internal Thermal Shutdown Protection
- ? Low Voltage Indicator Output for Direct Microprocessor Interface
- ? Exposed Pad Power Package
- ? Low Standby Current

Evaluation Board Information

Evaluation Board	Short Description	Status	Parts Used	Action
NCP3163INVEVB	NCP3163 -15 V/ 500 mA Voltage Inverting Evaluation Board	Active	NCP3163PWG	Contact Local Sales Office

Technical Documents

Type	Document Title	Document ID/Size	Rev
Eval Board: BOM	NCP3163INVEVB Bill of Material	NCP3163INVEVB_BOM.PDF - 71.0 KB	0
Eval Board: Gerber	NCP3163INVEVB Gerber Layout Files (Zip Format)	NCP3163INVEVB_GERBERS.ZIP - 37.0 KB	0
Eval Board: Schematic	NCP3163INVEVB Schematic	NCP3163INVEVB_SCHEMATIC.PDF - 26.0 KB	0
Eval Board: Test Procedure	NCP3163INVEVB Test Procedure	NCP3163INVEVB_TEST_PROCEDURE.PDF - 32.0 KB	0
Eval Board: BOM	NCP3163INVEVB Bill of Materials RoHS Compliant	NCP3163INVEVB_BOM_ROHS.PDF - 56.0 KB	0

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