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NCV8843MNR2GEVB:NCV8843 EVAL BOARD

Evaluation Board Description

The NCV8843 Demonstration Board provides a convenient way to implement and evaluate a complete practical buck regulator design. No additional components are required other than the DC input source and load. The board has an input voltage range of 5 V - 16 V and is preset for a nominal output voltage of 3.3 V. Included are SHDNB and SYNC terminals for logic on -off control of the regulator and synchronization of the internal controller to an external frequency source in place of the internal 340KHz oscillator.

Features and Applications

Features

- ? V2 Control Method for Uncomplicated Loop Compensation, Fast Transient Response, and Reduced Board Area
- ? A Total of 12 Components, Including the IC, to Realize a Complete Buck Regulator
- ? Shutdown Terminal to Disable the Output and Provide a Low Current Drain Standby Mode
- ? Sync Terminal to Permit Controller Synchronization to an External Source
- ? 1.5 A Peak Inductor Current
- ? Soft Start Function to Reduce Inrush Current
- ? 82% Efficiency at 1 A Load Current
- ? Line Regulation Better Than 0.02%
- ? Load Regulation Better Than 0.2%

Evaluation Board Information

Evaluation Board	Status	Pb - free	Short Description	Parts Used	Action
NCV8843MNR2GEVB	Active	Pb-free	NCV8843 EVAL BOARD	NCV8843MNR2G	Contact Local Sales Office

Technical Documents

Type	Document Title	Document ID/Size	Rev
Eval Board: BOM	NCV8843MNR2GEVB Bill of Materials ROHS Compliant	NCV8843MNR2GEVB_BOM_ROHS.PDF - 70.0 KB	0
Eval Board: Gerber	NCV8843MNR2GEVB Gerber Layout Files (Zip Format)	NCV8843MNR2GEVB_GERBER.ZIP - 124.0 KB	0
Eval Board: Schematic	NCV8843MNR2GEVB Schematic	NCV8843MNR2GEVB_SCHEMATIC.PDF - 130.0 KB	0
Eval Board: Test Procedure	NCV8843MNR2GEVB Test Procedure	NCV8843MNR2GEVB_TEST_PROCEDURE.PDF - 220.0 KB	0

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