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NCP3123QPBCKGEVB:NCP3123 3A HF BUCK DB

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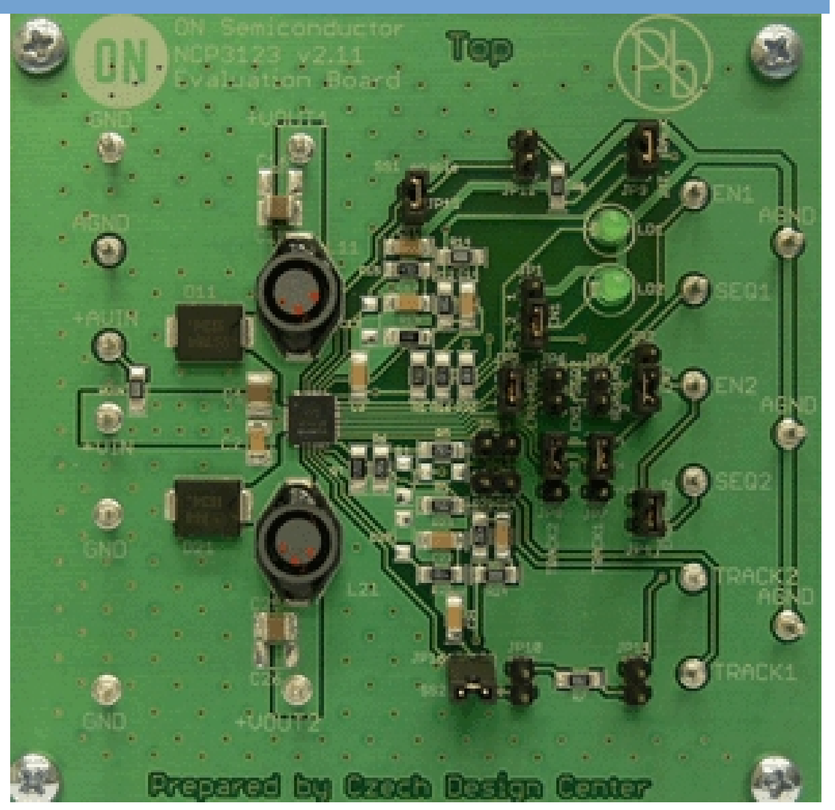
Evaluation Board Description



The NCP3123 is a dual 3.0 A DC/DC buck converter designed for low-voltage applications requiring high efficiency. The NCP3123 converter provides dual 3.0 A switching regulators with an adjustable 200 - 2200kHz switching frequency. The switching frequency is set by an external resistor. The NCP3123 also incorporates an auto - tracking and sequencing feature. Protection features include cycle - by - cycle current limit and under voltage lockout.

Features and Applications

Features

- Input voltage range from 4.5 V to 13.2 V
- Output voltage range from 0.8 V to 12 V
- 12 Vin to 5.0 Vout, efficiency = 85% min. at 3.0 A
- 200 kHz operation
- Stable with low ESR ceramic output capacitor
- External soft start
- Out - of - phase operation of OUT1 & OUT2
- Transconductance Error amp with external compensation
- Auto - tracking and sequencing
- Enable/disable capability
- Thermal shutdown
- Under voltage lockout
- Hiccup overload protection
- Low shutdown power (Iq < 100 A)

Evaluation Board Information

Evaluation Board	Status	Pb - free	Short Description	Parts Used	Action
NCP3123QPBCKGEVB	Active	Pb-fr	NCP3123 3A HF BUCK DB	NCP3123MNTXG	Contact Local Sales Office

Technical Documents

Type	Document Title	Document ID/Size	Rev
Eval Board: BOM	NCP3123QPBCKGEVB Bill of Materials ROHS Compliant	NCP3123QPBCKGEVB_BOM_ROHS.PDF - 232.0 KB	A
Eval Board: Gerber	NCP3123QPBCKGEVB Gerber Layout Files (Zip Format)	NCP3123QPBCKGEVB_GERBER.ZIP - 91.0 KB	0
Eval Board: Schematic	NCP3123QPBCKGEVB Schematic	NCP3123QPBCKGEVB_SCHEMATIC.PDF - 286.0 KB	0
Eval Board: Test Procedure	NCP3123QPBCKGEVB Test Procedure	NCP3123QPBCKGEVB_TEST_PROCEDURE.PDF - 677.0 KB	0

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