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Design Resources
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NCP3120QPBCKGEVB:NCP3120 2A BUCK DEMO BD

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Design Resources
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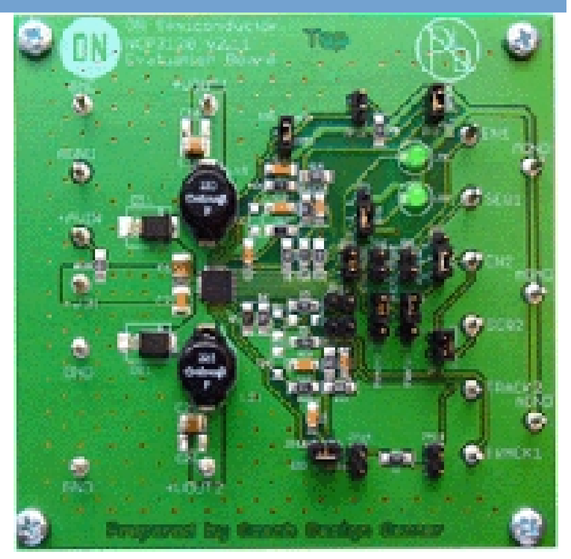
Evaluation Board Description

The NCP3120 is a dual 2.0A DC/DC buck converter designed for low - voltage applications. The NCP3120 converter provides dual 2.0A switching regulators with an adjustable 200 - 750 kHz switching frequency. The switching frequency is set by an external resistor. The NCP3120 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 = 87% min. @ 2.0 A
- 200 - 750 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
NCP3120QPBCKGEVB	Active	Pb-fr	NCP3120 2A BUCK DEMO BD	NCP3120MNTXG	Contact Local Sales Office

Technical Documents

Type	Document Title	Document ID/Size	Rev
Eval Board: BOM	NCP3120QPBCKGEVB Bill of Materials ROHS Compliant	NCP3120QPBCKGEVB_BOM_ROHS.PDF - 241.0 KB	A
Eval Board: Gerber	NCP3120QPBCKGEVB Gerber Layout Files (Zip Format)	NCP3120QPBCKGEVB_GERBER.ZIP - 89.0 KB	0
Eval Board: Schematic	NCP3120QPBCKGEVB Schematic	NCP3120QPBCKGEVB_SCHEMATIC.PDF - 78.0 KB	0
Eval Board: Test Procedure	NCP3120QPBCKGEVB Test Procedure	NCP3120QPBCKGEVB_TEST_PROCEDURE.PDF - 677.0 KB	0