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NCP3120QPBCKGEVB:NCP3120 2A BUCK DEMO BD

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

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