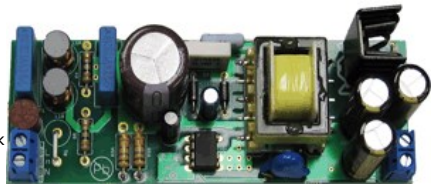
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NCP1129DIPGEVB: 25W Offline Power Supply High Voltage Switcher Evaluation Board



The NCP1129 switcher offers everything needed to build reliable and compact AC-DC switching power supplies with minimal surrounding elements. Incorporating an avalanche rated 650 V MOSFET, converters built with the NCP112X can be safely designed for international conditions without jeopardizing the overall reliability. The NCP112X implements peak current mode control with adjustable ramp compensation that ensures stability in Continuous Conduction Mode (CCM) operation. With an external resistor, the maximum peak current is adjustable, allowing the designer the ability to inject ramp compensation to stabilize CCM power supplies. A short circuit fault condition is independently detected from the auxiliary winding voltage resulting in improved short circuit protection with true overload detection. The Source pin provides access to the MOSFET source, allowing for overpower compensation. With a supply range up to 26 V, the switcher also provides a jittered 65 kHz or 100 kHz switching frequency operated in peak current mode control. When the power on the secondary side starts to decrease, the switcher automatically folds back its switching frequency down to a minimum level of 26 kHz. As the power further goes down, the part enters skip cycle while limiting the peak current.

Evaluation/Development Tool Information

Product	Status	Compliance	Short Description	Parts Used	Action
NCP1129DIPGEVB	Active	Pb-free	25W Offline Power Supply High Voltage Switcher Evaluation Board	NCP1129AP100G	Contact Local Sales Office Inventory

Technical Documents

Type	Document Title	Document ID/Size	Rev
Eval Board: BOM	NCP1129DIPGEVB Bill of Materials ROHS Compliant	NCP1129DIPGEVB_BOM_ROHS.PDF - 54.0 KB	0
Eval Board: Gerber	NCP1129DIPGEVB Gerber Layout Files (Zip Format)	NCP1129DIPGEVB_GERBER.ZIP - 105.0 KB	0
Eval Board: Schematic	NCP1129DIPGEVB Schematic	NCP1129DIPGEVB_SCHEMATIC.PDF - 45.0 KB	0
Eval Board: Test Procedure	NCP1129DIPGEVB Test Procedure	NCP1129DIPGEVB_TEST_PROCEDURE.PDF - 82.0 KB	0
Video	Power Supply Solutions with the NCP1129DIPGEVB Evaluation Board	TND6082/D	1

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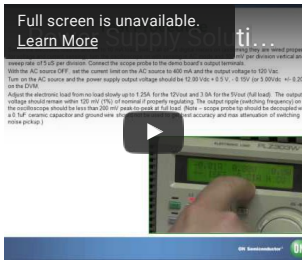
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Design Support

- Technical Documentation
- Design Resources & Documents
- Technical Support
- Sales Support

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Power Supply Solutions with the NCP1129DIPGEVB Evaluation Board



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