

NCP1615GEVB: High Voltage PFC Controller with Current Controlled Frequency Foldback Evaluation Board

The NCP1615C is a high voltage PFC controller designed to drive PFC boost stages based on an innovative Current Controlled Frequency Foldback (CCFF) method. In this mode, the circuit classically operates in critical conduction mode (CrM) when the inductor current exceeds a programmable value. When the current is below this preset level, the NCP1615C linearly decays the frequency down to a minimum of about 26 kHz when the input current is zero. CCFF maximizes the efficiency at both nominal and light load. In particular, the standby losses are reduced to a minimum. An innovative circuitry allows near-unity power factor even when the switching frequency is reduced.

The integrated high voltage startup circuit eliminates the need for external startup components and consumes negligible power during normal operation. Housed in a SOIC-16 package, the NCP1615C also incorporates the features necessary for robust and compact PFC stages, with few external components.



Evaluation/Development Tool Information				
Product	Status	Compliance	Short Description	Parts Used
NCP1615GEVB	Active	Pb-free	High Voltage PFC Controller with Current Controlled Frequency Foldback Evaluation Board	NCP1615CDR2G
				Contact Local Sales Office Inventory

Technical Documents			
Type	Document Title	Document ID/Size	Rev
Eval Board: BOM	NCP1615GEVB Bill of Materials	NCP1615GEVB_BOM_ROHS - 118 KB	0
Eval Board: Gerber	NCP1615GEVB Gerber Layout Files (Zip Format)	NCP1615GEVB_GERBER - 84 KB	0
Eval Board: Schematic	NCP1615GEVB Schematic	NCP1615GEVB_SCHEMATIC - 72 KB	0
Eval Board: Test Procedure	NCP1615GEVB Test Procedure	NCP1615GEVB_TEST_PROCEDURE - 325 KB	0
Video	Off-line Power Supply Solutions with the NCP1615GEVB Evaluation Board	TND6098/D	1

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Off-line Power Supply Solutions with the NCP1615GEVB Evaluation Board

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Voltech PM3000A Power Analyzer
Agilent 34401A Multimeter (2)
Chroma 6314 Electronic Load with Chroma 63108 High Voltage Module
Tektronix TD55034B Oscilloscope with Tektronix P5205 Differential Probe

Can be tested between 85 – 200 V and 50 – 60Hz

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