



NCP1216LEDGEVB: Non-Isolated Buck LED Driver Evaluation Board

The NCP1216LEDGEVB is designed to illustrate the performance of the NCP1216 in a non-isolated AC-DC constant current buck LED driver configuration. As designed in the board, it is capable of driving up to 1A. By changing some of the resistors on board, lower current performance is possible. The design is based on a peak current control scheme where the 100 kHz PWM controller is operating in the continuous current mode step down configuration. The evaluation board does have an optocoupler input for optional PWM dimming; the optocoupler is required since this is a non-isolated topology and the NCP1216 is in a floating topology. This board is designed for application where the input line voltage ranges from 90V AC. The NCP1216 features a fixed frequency PWM architecture with built-in frequency jittering to minimize the EMI signature and drive capability of up to 500mA for the external MOSFET. The NCP1216 represents an excellent solution where cost and ease of implementation are at a premium. The NCP1216 has dynamic self supply so it can be powered directly from the HV Bulk voltage.



Evaluation/Development Tool Information

Product	Status	Compliance	Short Description	Parts Used	Action
NCP1216LEDGEVB		Pb-free	Non-Isolated Buck LED Driver Evaluation Board	NCP1216P100G	» Contact Local Sales Office » Inventory

Technical Documents

Type	Document Title	Document ID/Size	Rev
Eval Board: BOM	NCP1216LEDGEVB Bill of Materials ROHS Compliant	NCP1216LEDGEVB_BOM_ROHS.PDF - 39.0 KB	0
Eval Board: Gerber	NCP1216LEDGEVB Gerber Layout Files (Zip Format)	NCP1216LEDGEVB_GERBER.ZIP - 54.0 KB	0
Eval Board: Schematic	NCP1216LEDGEVB Schematic	NCP1216LEDGEVB_SCHEMATIC.PDF - 128.0 KB	0
Eval Board: Test Procedure	NCP1216LEDGEVB Test Procedure	NCP1216LEDGEVB_TEST_PROCEDURE.PDF - 147.0 KB	0
Video	Non-Isolated Buck LED Driver Evaluation Board - NCP1216LEDGEVB	WVD17595/D	

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