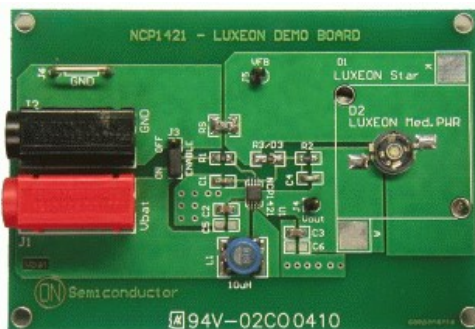




NCP1421LEDGEVB: Up to 600mA DC-DC Converter Evaluation Board

The NCP1421 is a monolithic, micro-power, high-frequency, step-up switching converter IC designed for battery operated hand-held electronic products with up to 600 mA loading. It integrates a synchronous rectifier (Sync-Rect) to improve efficiency and to eliminate the external Schottky Diode. The NCP1422's high switching frequency (up to 1.2 MHz) allows for a low profile, small sized inductor and output capacitor to be used. When the device is disabled, the internal conduction path from the battery to the load is fully blocked, which isolates the load from the battery. This True-Cutoff function reduces the shutdown current to typically only 50 nA. A Ring-Killer is also integrated to eliminate high-frequency ringing in discontinuous conduction mode. Finally, a Low-Battery Detector, Logic-Controlled Shutdown, Cycle-by Cycle Current Limiting and Thermal Shutdown provide value-added features for various battery operated applications. With all these functions on, the quiescent supply current is typically only 8.5 uA. This device is available in the compact and low profile Micro8 package.



The NCP1421LED evaluation board uses the NCP1421 to drive a high power, white LED. The circuit is configured to minimize power dissipation in the current sense resistor and the effects of lot-to-lot LED forward voltage (VF) variation on LED current.

Evaluation/Development Tool Information

Product	Status	Compliance	Short Description	Parts Used	Action
NCP1421LEDGEVB	Active	Pb-free	Up to 600mA DC-DC Converter Evaluation Board	NCP1421DMR2G	» Contact Local Sales Office » Inventory

Technical Documents

Type	Document Title	Document ID/Size	Rev
Eval Board: BOM	NCP1421LEDGEVB Bill of Materials ROHS Compliant	NCP1421LEDGEVB_BOM_ROHS.PDF - 38.0 KB	0
Eval Board: Gerber	NCP1421LEDGEVB Gerber Layout Files (Zip Format)	NCP1421LEDGEVB_GERBER.ZIP - 25.0 KB	0
Eval Board: Schematic	NCP1421LEDGEVB Schematic	NCP1421LEDGEVB_SCHEMATIC.PDF - 866.0 KB	0
Eval Board: Test Procedure	NCP1421LEDGEVB Test Procedure	NCP1421LEDGEVB_TEST_PROCEDURE.PDF - 68.0 KB	0
Eval Board: Manual	NCP1421LEDGEVB Manual	EVBUM2135/D - 148.0 KB	1
Video	Up to 600mA DC-DC Converter Evaluation Board - NCP1421LEDGEVB	TND6175/D	

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