



NCP1014LEDGTGEVB: 90-305 Vac, 0.8 Power Factor, 8 W LED Driver Evaluation Board

The NCP1014GTGEVB Greenpoint(TM) reference design board has been specifically designed to meet the > 0.7 power factor requirements of residential Energy Star(R) LED Luminaires without the addition of extra circuitry. This makes the driver an ideal candidate for products such as portable desk lamps, step lights, and undercabinet lighting that are included in the Energy Star residential product category. This design is rated at 8W which makes it ideal for driving devices like the Cree XLAMP(R) MC-E which integrates 4 LEDs in single package. The current for this evaluation board is set at 630 mA nominal although the current can be changed to other values by modifying a current setting sense resistor. While the power factor (>0.8 nominal) has been optimized for AC inputs in the range of 90 - 135 Vac , the board supports an AC input range of 90-265 V ac. While not populated, there are provisions in the board layout to support an optional analog dimming circuit which may be attractive for some applications. It contains all necessary features such as soft-start, frequency jittering, skip cycle etc. to build a rugged and low cost power supply. The device has dynamic self supply to allow it to be powered directly from the high voltage bulk. This demo board uses an auxiliary winding to maximize power output capability.



Evaluation/Development Tool Information

Product	Status	Compliance	Short Description	Parts Used	Action
NCP1014LEDGTGEVB	Active	Pb-free	90-305 Vac, 0.8 Power Factor, 8 W LED Driver Evaluation Board	NCP1014ST100T3G	» Contact Local Sales Office » Inventory

Technical Documents

Type	Document Title	Document ID/Size	Rev
Eval Board: BOM	NCP1014LEDGTGEVB Bill of Materials ROHS Compliant	NCP1014LEDGTGEVB_BOM_ROHS.PDF - 144.0 KB	2
Eval Board: Gerber	NCP1014LEDGTGEVB Gerber Layout Files (Zip Format)	NCP1014LEDGTGEVB_GERBER.ZIP - 93.0 KB	0
Eval Board: Test Procedure	NCP1014LEDGTGEVB Test Procedure	NCP1014LEDGTGEVB_TEST_PROCEDURE.PDF - 148.0 KB	3
Eval Board: Schematic	NCP1014LEDGTGEVB Schematic	NCP1014LEDGTGEVB_SCHEMATIC - 193 KB	0
Video	90-305 Vac, 0.8 Power Factor, 8 W LED Driver Evaluation Board - NCP1014LEDGTGEVB	WVD17547/D	

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