



NCL30002DIM2GEVB: 230 V Dimmable HPF Buck Evaluation Board

The NCL30002 is a switch mode power supply controller intended for low to medium power single stage power factor (PF) corrected LED Drivers. The device operates as a critical conduction mode(CrM) buck controller to regulate LED current at a high power factor for a specific line voltage range. The current limit threshold is tightly trimmed allowing open loop control techniques to reduce parts count while maintaining accurate current regulation and high power factor. CrM operation is particularly suited for LED applications as very high efficiency can be achieved even at low power levels. These are important in LED lighting to comply with regulatory requirements and meet overall system luminous efficacy requirements. In CrM, the switching frequency will vary with line and load. Switching losses are low as recovery losses in the output rectifier are negligible since the current goes to zero prior to reactivating the main MOSFET switch.



Evaluation/Development Tool Information

Product	Status	Compliance	Short Description	Parts Used	Action
NCL30002DIM2GEVB	Active	Pb-free	230 V Dimmable HPF Buck Evaluation Board	NCL30002DR2G	» Contact Local Sales Office

Technical Documents

Type	Document Title	Document ID/Size	Rev
Eval Board: BOM	NCL30002DIM2GEVB Bill of Materials ROHS Compliant	NCL30002DIM2GEVB_BOM_ROHS.PDF - 87.0 KB	1
Eval Board: Gerber	NCL30002DIM2GEVB Gerber Layout Files (Zip Format)	NCL30002DIM2GEVB_GERBER.ZIP - 39.0 KB	0
Eval Board: Schematic	NCL30002DIM2GEVB Schematic	NCL30002DIM2GEVB_SCHEMATIC.PDF - 207.0 KB	0
Eval Board: Test Procedure	NCL30002DIM2GEVB Test Procedure	NCL30002DIM2GEVB_TEST_PROCEDURE.PDF - 281.0 KB	0
Video	120 V Dimmable HPF Buck Evaluation Board - NCL30002DIM1GEVB	TND6154/D	

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