



NCP1250B40WGEVB: 40 W Notebook Adapter Demonstration Evaluation Board

The NCP1250 is a highly integrated PWM controller capable of delivering a rugged and high performance offline power supply in a tiny TSOP-6 package. With a supply range up to 28 V, the controller hosts a jittered 65 kHz or 100 kHz switching circuitry operated in peak current mode control. When the power on the secondary side starts to decrease, the controller automatically folds back its switching frequency down to a minimum level of 26 kHz. As the power further goes down, the part enters skip cycle while limiting the peak current.



Over Power Protection (OPP) is a difficult exercise especially when no-load standby requirements drive the converter specifications. The ON proprietary integrated OPP lets you harness the maximum delivered power without affecting your standby performance simply via two external resistors. An Over Voltage Protection input is also combined on the same pin and protects the whole circuitry in case of optocoupler failure or adverse open loop operation.

Evaluation/Development Tool Information

Product	Status	Compliance	Short Description	Parts Used	Action
NCP1250B40WGEVB	Active	Pb-free	40 W Notebook Adapter Demonstration Evaluation Board	NCP1250BSN65T1G	» Contact Local Sales Office

Technical Documents

Type	Document Title	Document ID/Size	Rev
Eval Board: BOM	NCP1250B40WGEVB Bill of Materials ROHS Compliant	NCP1250B40WGEVB_BOM_ROHS.PDF - 68 KB	1
Eval Board: Gerber	NCP1250B40WGEVB Gerber Layout Files (Zip Format)	NCP1250B40WGEVB_GERBER.ZIP - 29.0 KB	0
Eval Board: Schematic	NCP1250B40WGEVB Schematic	NCP1250B40WGEVB_SCHEMATIC.PDF - 16.0 KB	0
Eval Board: Test Procedure	NCP1250B40WGEVB Test Procedure	NCP1250B40WGEVB_TEST_PROCEDURE.PDF - 286.0 KB	0
Video	40 W Notebook Adapter Demonstration Evaluation Board - NCP1250B40WGEVB Test Procedure	WVD17527/D	

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