



## 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 | <a href="#">» Contact Local Sales Office</a> |

### Technical Documents

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

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### Featured Video

**40 W Notebook Adapter Demonstration Evaluation Board - NCP1250B40WGEVB Test Procedure**



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