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NCP1380BGEVB: 19V QR Controller Evaluation Board

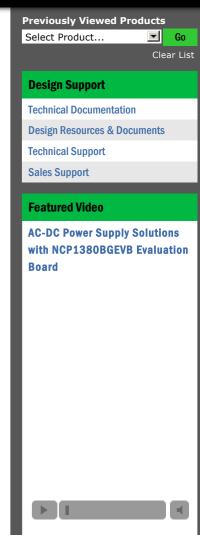
The NCP1380 is a high performance device aimed at powering quasiresonant converters. Capitalizing on a proprietary valley lockout system, the controller shifts gears and reduces the switching frequency as the power loading becomes lighter. This results in a stable operation despite switching events always triggering in the drain-source valley. This system works down to the 4th valley and toggles to a variable frequency mode



beyond, ensuring an excellent standby power performance. To improve the safety in the overload situations, the controller includes an Over Power Protection (OPP) circuit which clamps the delivered power at high-line. Safety-wise, a fixed internal timer relies on the feedback voltage to detect a fault. Once the timer elapses, the controller enters auto-recovery mode. Particularly well suited for adapter applications, the controller features a pin to implement a combined overvoltage / overtemperature protection.

| Evaluation/Development Tool Information | | | | | | | |
|---|--------|------------|------------------------------------|--------------|---|--|--|
| Product | Status | Compliance | Short Description | Parts Used | Action | | |
| NCP1380BGEVB | Active | Pb-free | 19V QR Controller Evaluation Board | NCP1380BDR2G | >> Contact Local Sales Office >> Inventory | | |

| Technical Documents | | | | | | |
|-------------------------------|--|---|-----|--|--|--|
| Туре | Document Title | Document ID/Size | Rev | | | |
| Eval Board: BOM | NCP1380BGEVB Bill of Materials ROHS Compliant | NCP1380BGEVB_BOM_ROHS.XLS - 139 KB | 2 | | | |
| Eval Board: Gerber | NCP1380BGEVB Gerber Layout Files (Zip Format) | NCP1380BGEVB_GERBER.ZIP - 71.0 KB | 0 | | | |
| Eval Board: Schematic | NCP1380BGEVB Schematic | NCP1380BGEVB_SCHEMATIC.PDF - 222.0 KB | 0 | | | |
| Eval Board: Test Procedure | NCP1380BGEVB Test Procedure | NCP1380BGEVB_TEST_PROCEDURE.PDF - 1913.0 KB | 0 | | | |
| Video | AC-DC Power Supply Solutions with NCP1380BGEVB Evaluation Board | TND6055/D | 1 | | | |



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