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NCP1380BGEVB: 19V QR Controller Evaluation Board

The NCP1380 is a high performance device aimed at powering quasi-resonant 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

Type	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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