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**Featured Video**

AC-DC Adapter Solutions with the NCP1380DGEVB Evaluation Board



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**Evaluation/Development Tool Description**

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 brownout / overvoltage protection.

**Evaluation/Development Tool Information**

Product	Status	Compliance	Short Description	Parts Used	Action
NCP1380DGEVB	Active	Pb-free	Quasi-Resonant Controller, 19V, Evaluation Board	NCP1380DDR2G	<div style="display: flex; justify-content: space-between;"> <div style="flex: 1;"> <b>Buy Now</b> </div> <div style="flex: 1;"> <a href="#">» Contact Local Sales Office</a> </div> <div style="flex: 1;"> <a href="#">» Inventory</a> </div> </div>

**Technical Documents**

Type	Document Title	Document ID/Size	Rev
Eval Board: BOM	NCP1380DGEVB Bill of Materials ROHS Compliant	NCP1380DGEVB_BOM_ROHS.PDF - 178.0 KB	2
Eval Board: Gerber	NCP1380DGEVB Gerber Layout Files (Zip Format)	NCP1380DGEVB_GERBER.ZIP - 71.0 KB	0
Eval Board: Schematic	NCP1380DGEVB Schematic	NCP1380DGEVB_SCHEMATIC.PDF - 222.0 KB	0
Eval Board: Test Procedure	NCP1380DGEVB Test Procedure	NCP1380DGEVB_TEST_PROCEDURE.PDF - 1913.0 KB	2
Video	AC-DC Adapter Solutions with the NCP1380DGEVB Evaluation Board	TND6083/D	1