



## NCP1937BADAPGEVB: 90 W Adapter PFC+QR 10 MW Evaluation Board

This combination IC integrates power factor correction (PFC) and quasi-resonant flyback functionality necessary to implement a compact and highly efficient Switched Mode Power Supply for an adapter application.

The PFC stage exhibits near-unity power factor while operating in a Critical Conduction Mode (CrM) with a maximum frequency clamp. The circuit incorporates all the features necessary for building a robust and compact PFC stage while minimizing the number of external components.

The quasi-resonant current-mode flyback stage features a proprietary valley-lockout circuitry, ensuring stable valley switching. This system works down to the 4th valley and toggles to a frequency foldback mode with a minimum frequency clamp beyond the 4th valley to eliminate audible noise. Skip mode operation allows excellent efficiency in light load conditions while consuming very low standby power consumption.



### Evaluation/Development Tool Information

Product	Status	Compliance	Short Description	Parts Used	Action
NCP1937BADAPGEVB	Active	Pb-free	90 W Adapter PFC+QR 10 MW Evaluation Board	NCP1937A1DR2G , NCP4304ADR2G , NCP4304AMNTWG , NCP4304BDR2G , NCP4304BMNTWG , NCP4355BDR2G	<a href="#">» Contact Local Sales Office</a> <a href="#">» Inventory</a>

### Technical Documents

Type	Document Title	Document ID/Size	Rev
Eval Board: BOM	NCP1937BADAPGEVB Bill of Materials ROHS Compliant	NCP1937BADAPGEVB_BOM_ROHS.PDF - 290 KB	2
Eval Board: Gerber	NCP1937BADAPGEVB Gerber Layout Files (Zip Format)	NCP1937BADAPGEVB_GERBERS.ZIP - 135 KB	2
Eval Board: Schematic	NCP1937BADAPGEVB Schematic	NCP1937BADAPGEVB_SCHEMATIC.PDF - 366 KB	2
Eval Board: Test Procedure	NCP1937BADAPGEVB Test Procedure	NCP1937BADAPGEVB_TEST_PROCEDURE.PDF - 156.0 KB	0
Video	Computer Solutions with NCP1937BADAPGEVB Evaluation Board	TND6054/D	1

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