ON

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

Evaluation Board Description

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.



Design Support

- •• Technical
- Documentation Design
- Resources
- Technical Support
- Sales Support

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 Board Information

Evaluation Board	Status	Pb- free	Short Description	Parts Used	Action
NCP1937BADAPGEVB	Active	Þ	90 W Adapter PFC+QR 10 MW Evaluation Board	NCP1937A1DR2G, NCP4304ADR2G, NCP4304AMNTWG, NCP4304BDR2G, NCP4304BMNTWG, NCP4355BDR2G	

Technical Documents							
Туре	Document Title	Document ID/Size	Rev				
Eval Board: BOM	NCP1937BADAPGEVB Bill of Materials ROHS Compliant	NCP1937BADAPGEVB_BOM_ROHS.PDF - 152.0 KB	1.2				
Eval Board: Gerber	NCP1937BADAPGEVB Gerber Layout Files (Zip Format)	NCP1937BADAPGEVB_GERBERS.ZIP - 102.0 KB	1				
Eval Board: Schematic	NCP1937BADAPGEVB Schematic	NCP1937BADAPGEVB_SCHEMATIC.PDF - 132.0 KB	1.2				
Eval Board: Test Procedure	NCP1937BADAPGEVB Test Procedure	NCP1937BADAPGEVB_TEST_PROCEDURE.PDF - 156.0 KB	0				

Privacy Policy | Terms of Use | Site Map | Careers | Contact Us | Terms and Conditions | Mobile Portal

Copyright © 1999-2013 ON Semiconductor

Follow Us 🛛 🔚 🔡 👫