



NV890100PDR2GEVB: Fixed-Frequency Monolithic Buck Switching Regulator Evaluation Board

Evaluation Board Description

The NCV890100 is a fixed-frequency, monolithic, Buck switching regulator intended for Automotive, battery-connected applications that must operate with up to a 36V input supply. The regulator is suitable for systems with low noise and small form factor requirements often encountered in automotive driver information systems. The NCV890100 is capable of converting the typical 4.5 V to 18 V automotive input voltage range to outputs as low as 3.3 V at a constant switching frequency above the sensitive AM band, eliminating the need for costly filters and EMI countermeasures.

The NCV890100 also provides several protection features expected in Automotive power supply systems such as current limit, short-circuit protection and thermal shutdown. In addition, the high switching frequency produces low output voltage ripple even when using small inductor values and an all-ceramic output filter capacitor - forming a space-efficient switching regulator solution.



Design Support

- » Technical Documentation
- » Design Resources
- » Technical Support
- » Sales Support

Evaluation Board Information

Evaluation Board	Status	Pb-free	Short Description	Parts Used	Action
NV890100PDR2GEVB	Active		Fixed-Frequency Monolithic Buck Switching Regulator Evaluation Board	NCV890100PDR2G	

Technical Documents

Type	Document Title	Document ID/Size	Rev
Eval Board: BOM	NV890100PDR2GEVB Bill of Materials ROHS Compliant	NV890100PDR2GEVB_BOM_ROHS.PDF - 39.0 KB	0
Eval Board: Gerber	NV890100PDR2GEVB Gerber Layout Files (Zip Format)	NV890100PDR2GEVB_GERBER.ZIP - 50.0 KB	0
Eval Board: Schematic	NV890100PDR2GEVB Schematic	NV890100PDR2GEVB_SCHEMATIC.PDF - 140.0 KB	0
Eval Board: Test Procedure	NV890100PDR2GEVB Test Procedure	NV890100PDR2GEVB_TEST_PROCEDURE.PDF - 117.0 KB	0

