



NV890130PDR2GEVB: Fixed-Frequency Monolithic Buck Switching Regulator Evaluation Board

The NCV890130 is a fixed-frequency, monolithic, Buck switching regulator intended for Automotive, battery-connected applications that must operate with up to a 32 V input supply. The regulator is suitable for systems with low noise and small form factor requirements often encountered in automotive driver information systems. The NCV890130 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 NCV890130 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.



Evaluation/Development Tool Information

Product	Status	Compliance	Short Description	Parts Used	Action
NV890130PDR2GEVB	Active	Pb-free	Fixed-Frequency Monolithic Buck Switching Regulator Evaluation Board	NCV890130PDR2G	Contact Local Sales Office

Technical Documents

Type	Document Title	Document ID/Size	Rev
Eval Board: BOM	NV890130PDR2GEVB Bill of Materials ROHS Compliant	NV890130PDR2GEVB_BOM_ROHS.PDF - 40.0 KB	0
Eval Board: Gerber	NV890130PDR2GEVB Gerber Layout Files (Zip Fomat)	NV890130PDR2GEVB_GERBER.ZIP - 50.0 KB	0
Eval Board: Schematic	NV890130PDR2GEVB Schematic	NV890130PDR2GEVB_SCHEMATIC.PDF - 138.0 KB	0
Eval Board: Test Procedure	NV890130PDR2GEVB Test Procedure	NV890130PDR2GEVB_TEST_PROCEDURE.PDF - 121.0 KB	0
Video	Fixed-Frequency Monolithic Buck Switching Regulator - NV890130PDR2GEVB Test Procedure	WVD17021/D	

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