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NCP1599GEVB: Synchronous PWM Converter Evaluation Board

The NCP1599 is a fixed 1 MHz, high-output-current, synchronous PWM converter that integrates a low-resistance, high-side P-channel MOSFET and a low-side N-channel MOSFET. The NCP1599 utilizes internally compensated current mode control to provide good transient response, ease of implementation, and excellent loop stability. It regulates input voltages from 3.0 V to 5.5 V down to an output voltage as low as 0.8 V and is able to supply up to 3.0 A of load current. The NCP1599 includes an internally fixed switching frequency (FSW), and an internal soft-start to limit inrush current. Other features include cycle-by-cycle current limiting, short-circuit protection, power saving mode and thermal shutdown.



Features and Applications

Applications

- Set-Top-Box
- LCD-TV / DTV / Plasma TV
- USB Powered Devices

Evaluation/Development Tool Information								
Product Stat	us Compliance	Short Description		Parts Used Action				
NCP1599GEVB Activ	e Pb-free	Synchronous PWM Converter Eval	uation Board	NCP1599MNTWG	** Contact Local S Office	t ales		
Technical Docu	nents							
Туре	Document Tit	le	Docume	nt ID/Size		Rev		
Eval Board: BOM	NCP1599GEVB	Bill of Materials ROHS Compliant	NCP15990	GEVB_BOM_ROHS.PDF	- 547.0 KB	3		
Eval Board: Gerber	NCP1599GEVB (Gerber Layout Files (Zip Format)	NCP15990	GEVB_GERBER.ZIP - 16	5.0 KB	3		
Eval Board: Schematic	NCP1599GEVB S	Schematic	NCP15990	SEVB_SCHEMATIC.PDF	- 185.0 KB	3		
Eval Board: Test Procedure	NCP1599GEVB T	est Procedure	NCP15990 102.0 KB	GEVB_TEST_PROCEDU	RE.PDF -	3		
Video	Synchronous PV NCP1599GEVB	VM Converter Evaluation Board -	TND6149/	D				

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