



## 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	Status	Compliance	Short Description	Parts Used	Action
NCP1599GEVB	Active	Pb-free	Synchronous PWM Converter Evaluation Board	NCP1599MNTWG	<a href="#">Contact Local Sales Office</a>

### Technical Documents

Type	Document Title	Document ID/Size	Rev
Eval Board: BOM	NCP1599GEVB Bill of Materials ROHS Compliant	<a href="#">NCP1599GEVB_BOM_ROHS.PDF - 547.0 KB</a>	3
Eval Board: Gerber	NCP1599GEVB Gerber Layout Files (Zip Format)	<a href="#">NCP1599GEVB_GERBER.ZIP - 165.0 KB</a>	3
Eval Board: Schematic	NCP1599GEVB Schematic	<a href="#">NCP1599GEVB_SCHEMATIC.PDF - 185.0 KB</a>	3
Eval Board: Test Procedure	NCP1599GEVB Test Procedure	<a href="#">NCP1599GEVB_TEST_PROCEDURE.PDF - 102.0 KB</a>	3
Video	Synchronous PWM Converter Evaluation Board - NCP1599GEVB	TND6149/D	

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