



NCP1597AGEVB: Synchronous PWM Converter Evaluation Board

The NCP1597A family is a fixed 1 MHz frequency, high-output-current, synchronous PWM converter that integrate low-resistance, high-side P-channel MOSFETs and low-side N-channel MOSFETs. The NCP1597A utilizes current mode control to provide fast transient response and excellent loop stability and supports PFM mode at light load for higher efficiency. It regulates input voltages from 4.0 V to 5.5 V down to an output voltage as low as 0.8 V and is able to supply up to 2.0 A.

The NCP1597A has features including fixed internally switching frequency (FSW), and an internal soft-start to limit inrush currents. Using the EN pin, shutdown supply current is reduced to 1 μ A maximum.

Other features include cycle-by-cycle current limiting; short-circuit protection, power saving mode and thermal shutdown.

Features and Applications

Applications

- USB Powered Devices
- Hard Disk Drive (HDD)
- DSP Power



Evaluation/Development Tool Information

Product	Status	Compliance	Short Description	Parts Used	Action
NCP1597AGEVB	Active	Pb-free	Synchronous PWM Converter Evaluation Board	NCP1597AMNTWG	Contact Local Sales Office

Technical Documents

Type	Document Title	Document ID/Size	Rev
Eval Board: BOM	NCP1597AGEVB Bill of Materials ROHS Compliant	NCP1597AGEVB_BOM_ROHS.PDF - 547.0 KB	2
Eval Board: Gerber	NCP1597AGEVB Gerber Layout Files (Zip Format)	NCP1597AGEVB_GERBERS.ZIP - 163.0 KB	2
Eval Board: Schematic	NCP1597AGEVB Schematic	NCP1597AGEVB_SCHEMATIC.PDF - 177.0 KB	2
Eval Board: Test Procedure	NCP1597AGEVB Test Procedure	NCP1597AGEVB_TEST_PROCEDURE.PDF - 110.0 KB	0
Video	Synchronous PWM Converter Evaluation Board - NCP1597AGEVB	WVD17607/D	

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