



NCP1593AGEVB: 3 A Synchronous Buck Regulator Evaluation Board

The NCP1593 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 NCP1593 utilizes internally compensated current mode control to provide good transient response, ease of implementation and excellent loop stability. It regulates input voltages from 4.0 V to 5.5 V down to an output voltage as low as 0.6 V and is able to supply up to 3 A of load current. The NCP1593 includes an internally fixed switching frequency (FSW), and an internal soft-start to limit inrush current. Other features include cycle-by-cycle current limiting, 100% duty cycle operation, short-circuit protection, power saving mode and thermal shutdown.



Evaluation/Development Tool Information

Product	Status	Compliance	Short Description	Parts Used	Action
NCP1593AGEVB	Active	Pb-free	3 A Synchronous Buck Regulator Evaluation Board	NCP1593AMNTWG	Contact Local Sales Office

Technical Documents

Type	Document Title	Document ID/Size	Rev
Eval Board: BOM	NCP1593AGEVB Bill of Materials ROHS Compliant	NCP1593AGEVB_BOM_ROHS.PDF - 48.0 KB	0
Eval Board: Gerber	NCP1593AGEVB Gerber Layout Files (Zip Format)	NCP1593AGEVB_GERBER.ZIP - 228.0 KB	0
Eval Board: Schematic	NCP1593AGEVB Schematic	NCP1593AGEVB_SCHEMATIC.PDF - 120.0 KB	0
Eval Board: Test Procedure	NCP1593AGEVB Test Procedure	NCP1593AGEVB_TEST_PROCEDURE.PDF - 107.0 KB	0
Video	3 A Synchronous Buck Regulator	WVD17507/D	

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