



NCP1075SOTGEVB: 15 W SMPS Evaluation Board

The NCP1072 / NCP1075 products integrate a fixed frequency current mode controller with a 700 V MOSFET. Available in a PDIP-7 or SOT-223 package, the NCP1072/5 offer a high level of integration, including soft-start, frequency-jittering, short-circuit protection, skip-cycle, a maximum peak current set point, ramp compensation, and a Dynamic Self-Supply (eliminating the need for an auxiliary winding).



Unlike other monolithic solutions, the NCP1072/5 is quiet by nature: during nominal load operation, the part switches at one of the available frequencies (65, 100 or 130 kHz). When the output power demand diminishes, the IC automatically enters frequency foldback mode and provides excellent efficiency at light loads. When the power demand reduces further, it enters into a skip mode to reduce the standby consumption down to a no load condition.

Protection features include: a timer to detect an overload or a short-circuit event, Overvoltage Protection with auto-recovery and AC input line voltage detection.

For improved standby performance, the connection of an auxiliary winding stops the DSS operation and helps to reduce input power consumption below 50 mW at high line.

Evaluation/Development Tool Information

Product	Status	Compliance	Short Description	Parts Used	Action
NCP1075SOTGEVB	Active	Pb-free	15 W SMPS Evaluation Board	NCP1075STAT3G	» Contact Local Sales Office

Technical Documents

Type	Document Title	Document ID/Size	Rev
Eval Board: BOM	NCP1075SOTGEVB Bill of Materials ROHS Compliant	NCP1075SOTGEVB_BOM_ROHS.PDF - 53 KB	1
Eval Board: Gerber	NCP1075SOTGEVB Gerber Layout Files (Zip Format)	NCP1075SOTGEVB_GERBER.ZIP - 80.0 KB	0
Eval Board: Schematic	NCP1075SOTGEVB Schematic	NCP1075SOTGEVB_SCHEMATIC.PDF - 42.0 KB	0
Eval Board: Test Procedure	NCP1075SOTGEVB Test Procedure	NCP1075SOTGEVB_TEST_PROCEDURE.PDF - 88.0 KB	0
Video	White Goods Solutions with NCP1075SOTGEVB Evaluation Board	TND6057/D	1

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