



NCP1070SOTGEVB: Low Power Offline SMPS High-Voltage Switcher Regulator Evaluation Board

Evaluation board for the NCP1070 which integrates a fixed frequency current mode controller with a 700 V MOSFET. Available in a PDIP-7 or SOT-223 package, the NCP1070 offers 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 NCP1070 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. NCP1070 = 250mA peak current limit NCP1071 = 350mA peak current limit



Evaluation/Development Tool Information

Product	Status	Compliance	Short Description	Parts Used	Action
NCP1070SOTGEVB	Active	Pb-free	Low Power Offline SMPS High-Voltage Switcher Regulator Evaluation Board	NCP1070STBT3G	» Contact Local Sales Office » Inventory

Technical Documents

Type	Document Title	Document ID/Size	Rev
Eval Board: BOM	NCP1070SOTGEVB Bill of Materials ROHS Compliant	NCP1070SOTGEVB_BOM_ROHS - 33 KB	0
Eval Board: Gerber	NCP1070SOTGEVB Gerber Layout Files (Zip Format)	NCP1070SOTGEVB_GERBER - 55 KB	0
Eval Board: Schematic	NCP1070SOTGEVB Schematic	NCP1070SOTGEVB_SCHEMATIC - 24 KB	0
Eval Board: Test Procedure	NCP1070SOTGEVB Test Procedure	NCP1070SOTGEVB_TEST_PROCEDURE - 93 KB	0
Video	High-Voltage Switcher Regulator for Low Power Offline SMPS - NCP1070SOTGEVB	TND6132/D	

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