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## NCP3101BUCK1GEVB:NCP3101Evaluation Board 55X90MM

### Evaluation Board Description

The NCP3101 is a high efficiency, wide input, high output current, synchronous PWM buck converter designed to operate from a 4.5 V to 13.2 V supply. The device is capable of producing an output voltage as low as 0.8 V. The NCP3101 can continuously output 6 A through MOSFET switches driven by an internally set 275 kHz oscillator. The 40 -pin device provides an optimal level of integration to reduce size and cost of the power supply. The NCP3101 also incorporates an externally compensated transconductance error amplifier and a capacitor programmable soft -start function. Protection features include programmable short circuit protection and under voltage lockout (UVLO).

### Features and Applications

#### Features

- ? Integrated 6A Switching Regulator
- ? 0.8 V +/- 1% internal reference
- ? Resistor programmable current limit
- ? 275 kHz fixed frequency operation
- ? Capacitor programmable soft -start
- ? 18 mohm Internal HS and LS FET

### Evaluation Board Information

Evaluation Board	Status	Pb-free	Short Description	Parts Used	Action
NCP3101BUCK1GEVB	Active	<input checked="" type="checkbox"/> Pb-free	NCP3101Evaluation Board 55X90MM	NCP3101MNTXG	Contact Local Sales Office

### Technical Documents

Type	Document Title	Document ID/Size	Rev
Eval Board: BOM	NCP3101BUCK1GEVB Bill of Materials ROHS Compliant	NCP3101BUCK1GEVB_BOM_ROHS.REV0.PDF - 87.0 KB	0
Eval Board: Gerber	NCP3101BUCK1GEVB Gerber Layout Files (Zip Format)	NCP3101BUCKL1GEVB_GERBER.ZIP - 111.0 KB	0
Eval Board: Schematic	NCP3101BUCK1GEVB Schematic	NCP3101BUCK1GEVB_SCHEMATIC.PDF - 149.0 KB	0
Eval Board: Test Procedure	NCP3101BUCK1GEVB Test Procedure	NCP3101BUCK1GEVB_TEST_PROCEDURE.PDF - 240.0 KB	1

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