

# 300KHz PFM Control Step-up DC/DC Converter

## CE8303 Series



### Introduction

The CE8303 Series is a CMOS PFM-control step-up switching DC/DC converter & controller that mainly consists of a reference voltage source, an oscillator, and a comparator. The PFM controller allows the duty ratio to be automatically switched according to the load, enabling products with a low ripple over a wide range, high efficiency, and high output current. With the CE8303 Series, a step-up switching DC/DC converter or controller can be configured by using an external coil, capacitor, and diode. The built-in MOSFET is turned off by a protection circuit when the voltage at the LX pin exceeds the limit to prevent it from being damaged. This feature, along with the mini package and low current consumption, makes the CE8303 Series ideal for applications such as the power supply unit of portable equipment.

### Features

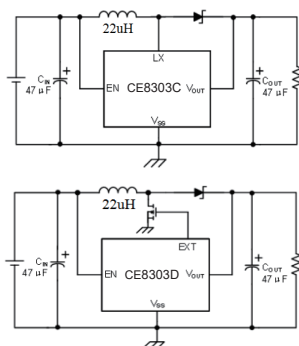
- Low Voltage Operation: Startup at 0.9V Min. (IOUT = 1mA) guaranteed
- Work Frequency: 300KHz
- External Parts: Coil, Capacitor, Diode
- Accuracy of  $\pm 2\%$
- High Efficiency: 87% (typ.)
- Shutdown Function
- Low Ripple, Low Noise

### Ordering Information

#### CE8303①②③④

DESIGNATOR	SYMBOL	DESCRIPTION
①	A	Standard, LX
	B	Standard, EXT
	C	With shutdown, LX/EN
	D	With shutdown, EXT/EN
②③	Integer	Output Voltage (1.8V~6V), e.g. 5.1V= ②:5, ③:1
④	M	Package: SOT23-3/5
	P	Package: SOT89-3/5
	T	Package: TO-92

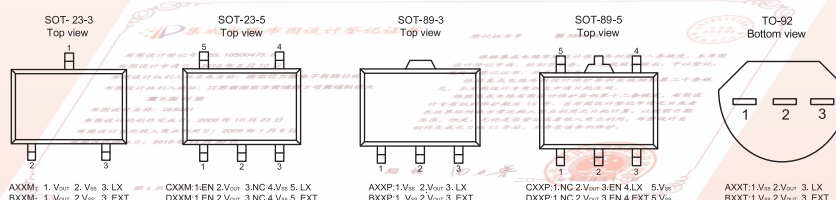
### Typical Application Circuits



### Applications

- Power supply for portable equipment such as digital cameras, electronic notebooks, and PDAs
- Power supply for audio equipment such as portable CD/MD players
- Constant voltage power supply for cameras, video equipment, and communications equipment
- Power supply for microcomputers

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