

Ultra Fast High PSRR Low Noise RF 300mA Low Dropout CMOS Voltage Regulator

CE6200 Series



Introduction

The CE6200 series are a group of positive voltage regulators manufactured by CMOS technologies with high ripple rejection, ultra low noise, low power consumption and low dropout voltage, which can prolong battery life in portable electronics. The CE6200 series work with low-ESR ceramic capacitors, reducing the amount of board space necessary for power applications. The CE6200 series consume less than 0.1 μ A in shutdown mode and have fast turn-on time less than 50 μ s. The CE6200 series are very suitable for the battery-powered equipments, such as RF applications and other systems requiring a quiet voltage source.

Features

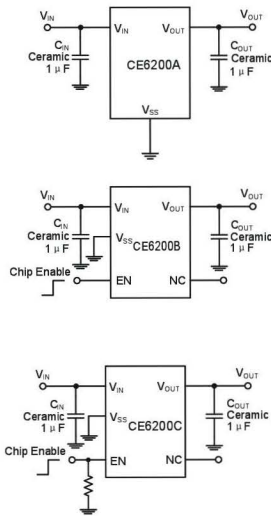
- Low Output Noise: 40 μ VRMS (10Hz~100kHz)
- Low Dropout Voltage: 150mV@150mA
- Low Quiescent Current: 50 μ A
- High Ripple Rejection: 75dB@1kHz
- Excellent Line and Load Transient Response
- Operating Voltage Range: 2V~6V
- Output Voltage Range: 1V~5V
- High Accuracy: $\pm 2\%/\pm 1\%$ (Typ.)
- Built-in Current Limiter, Short-Circuit Protection
- TTL-Logic-Controlled Shutdown Input

Ordering Information

CE6200①②③④

DESIGNATOR	SYMBOL	DESCRIPTION
①	A	Standard
	B	High Active, pull-down resistor built in, with COUT discharge resistor
	C	High Active, No pull-down resistor, No COUT discharge resistor
②③	Integer	Output Voltage e.g. 1.8V=②:1, ③:8
④	M/MA/MC/MY	Package: SOT-23-3
	M/MF/ML	Package: SOT-23-5
	U	Package: SOT-353 (SC70-5)
	P/PT	Package: SOT-89-3/5
	F/FB	Package: DFN1 $\times$ 1-4/FBP1 $\times$ 1-4

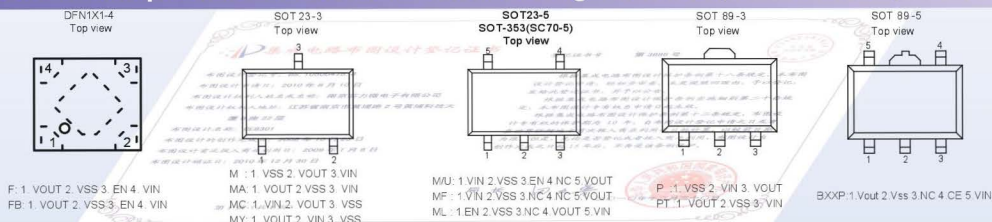
Typical Application Circuits



Applications

- Cellular and Smart Phones
- Laptop, Palmtops and PDAs
- Digital Still and Video Cameras
- MP3, MP4 Player
- Radio Control Systems
- Battery-powered Equipment

CHIPPOWER can provide all series of Power Management ICs, LED drivers, Audio PAs.



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