

PFM Step-up DC/DC Converter, ME2108 Series

General Description

ME2108 Series is a PFM Step-up DC/DC converter IC with low supply current by CMOS process. High frequency noise that occurs during switching is reduced by using advanced circuit designed, output voltage is programmable in 0.1V steps between 2.0~7.0V and maximum frequency is 180KHz(TYP.). A low ripple, high efficiency step-up DC/DC converter can be constructed of ME2108Xxx with only three external components. Also available is a CE(chip enable) function that reduce power dissipation During shut-down mode. ME2108Xxx is suitable for use with battery-powered instruments with low noise and low supply current.

Features

- Low ripple and low noise
- Operating voltage range: 0.9V~6.5V
- Output voltage range: 2.0V~7.0V(step 0.1V)
- Output voltage accuracy: $\pm 2.5\%$
- Output Current: If $V_{IN}=3.0V$ and $V_{OUT}=5.0V$, then $I_{OUT}=400mA$
- Low start voltage: $\leq 0.9V$ (at $I_{OUT} = 1mA$)
- Maximum oscillator frequency: 180KHz(TYP.)
- High Efficiency: 85%(TYP.)

Typical Application

- Power source for battery-powered equipment
- Power source for wireless mouse, wireless keyboard, toys, cameras, camcorders, VCRs, PDAs, and hand-held communication equipment
- Power source for appliances which require higher cell voltage than that of batteries used in the appliances

Package

- 3-pin: SOT23-3、SOT89-3、TO92
- 5-pin: SOT23-5