

CMOS Voltage Regulators

RX5RL Series

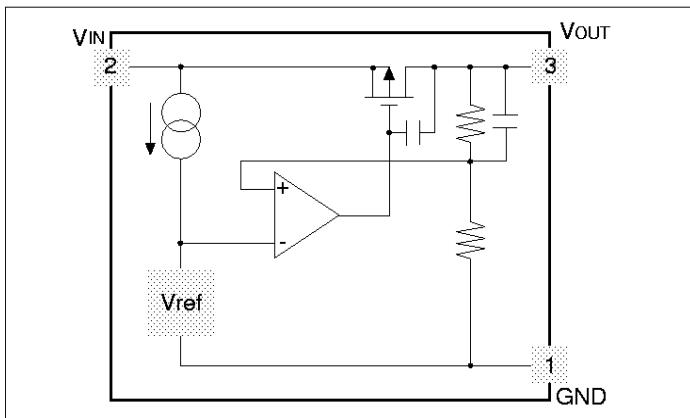
Voltage Regulator

The RX5RL series are CMOS voltage regulator ICs with high accuracy output voltage and ultra low quiescent current. Each model consists of a voltage reference unit, an error amplifier, a driver transistor, and resistors for setting output voltage.

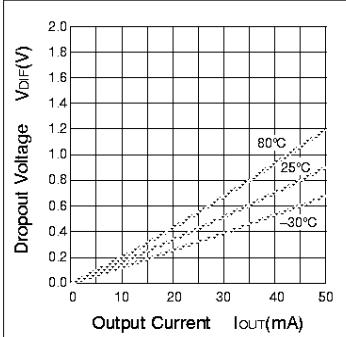
Features

- ultra-low quiescent current TYP. 1.1 μ A (RX5RL30A, VIN=5.0V)
- small dropout voltage TYP. 30mV (RX5RL50A, I_{OUT} = 1mA)
- stepwise setting with a step of 0.1V in the range of 2.0V to 6.0V of output voltage is possible
- high accuracy output voltage $\pm 2.5\%$
- low temperature drift coefficient of output voltage TYP. $\pm 100\text{ppm}/^\circ\text{C}$
- excellent line regulation Typ. 0.1%/V
- three types of packages RE5RL TO-92
RH5RL SOT-89
RN5RL SOT-23-5

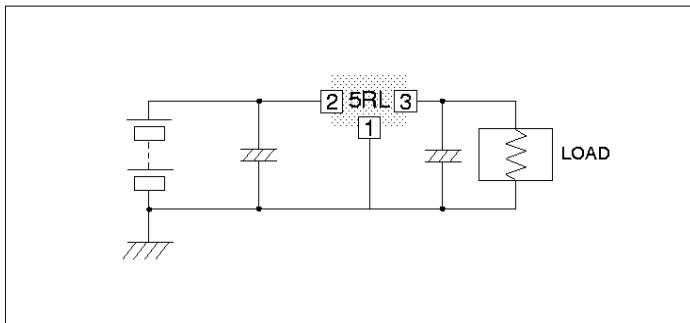
Block Diagram



Typical Characteristics RX5RL50A



Typical Circuit Configuration



Packages

RE5RL	RH5RL	RN5RL

Applications

- power source for battery-powered equipment
- power source for cameras, video equipment such as camcorders and VCRs, and hand-held communication devices
- precision voltage references