

### Wide Input Voltage Range Micropower 300mA LDO

The AP7370 is an extremely low quiescent current, positive voltage regulator with a maximum input voltage of 18V.

The AP7370 has high accuracy, reverse-current protection, and ultra-low quiescent current, which make it ideal for use in various USB and portable devices and instrument applications.

The AP7370 is available in 1.2V, 1.5V, 1.8V, 2.8V, 3.0V, 3.3V, 3.6V, and 5.0V fixed output voltage versions.

The AP7370 is available in SOT23, SOT25, SOT89, and DFN2020-6 packages.



#### The Diodes Advantage

**The AP7370 maximizes system run times with its extremely low quiescent current.**

- **Wide Input Voltage: 3.2V to 18V**  
Covers 5V, 9V, and 12V power rails with good transient withstand
- **Wide Output Voltages: 1.2V, 1.5V, 1.8V, 2.8V, 3.0V, 3.3V, 3.6V, and 5.0V**  
Covers standard I/O voltage levels
- **Low Quiescent Current at 1.5 $\mu$ A**  
Minimises standby power in low-power systems and extends battery life
- **1.0% Output Accuracy at -40 $^{\circ}$ C to +85 $^{\circ}$ C Temperature**  
Maintains accuracy under all conditions
- **Built-In Current Limit Function**  
Short-circuit and overcurrent protection features

#### Applications

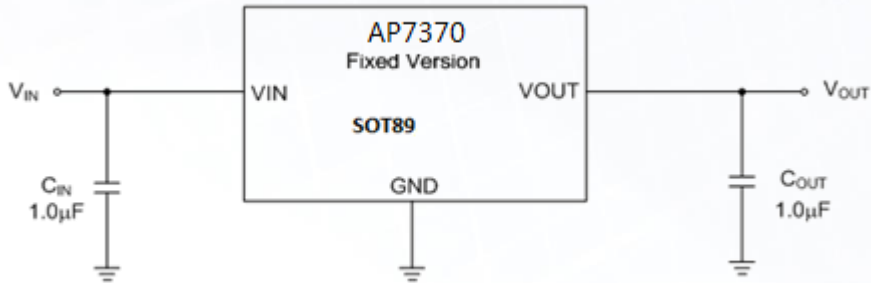
- Battery-Powered Equipment
- Portable Instrumentation
- Metering
- Laptops, Notebook
- Weighing Scales
- Appliances



# New Product Announcement

## AP7370

### Typical Application Circuit



### Product Portfolio

Part Number	V <sub>IN</sub> (V)	V <sub>OUT</sub> (V)	I <sub>OUT</sub> (mA)	V <sub>DROP</sub> @ Full Load (mV)	I <sub>Q</sub> (µA)	Output Accuracy (%)	Enable	Package
AP7370-XXW5-7	3.2 to 18	1.2V	300	500	1.5	1	No	SOT25(W5)*
AP7370-XXWR-7		1.5V						SOT25(WR)*
AP7370-XXWW-7		1.8V						SOT25(WW)*
AP7370-XXY-13		2.8V						SOT89
AP7370-XXSA-7		3.0V						SOT23
AP7370-XXFDC-7		3.3V						U-DFN2020-6 (Type C)
		3.6V						
	5.0V							

\* W5/WR/WW for different pin assignment in SOT25 package

To find out more information: <https://www.diodes.com/part/AP7370>

### Ordering Information

