

## AP2600 Low Dropout Voltage Regulator 300mA with Enable Pin

Written by Administrator

Tuesday, 15 September 2009 11:48 - Last Updated Tuesday, 02 October 2012 16:01

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### General Description:

The AP2600 is a series of CMOS positive linear regulators features enable pin function with low dropout voltage, making them ideal for battery powered applications.

The AP2600 has both thermal shutdown and current limiting to prevent device failure under extreme operating conditions.

The AP2600 features a typical  $0.75\Omega$  P-Channel MOSFET pass transistor. It provides several advantages over similar designs using PNP pass transistors, including longer battery life.

### Key Specification

- Output Current 300mA (min)
- Low Dropout Voltage (typ) 0.18A
- Output Voltage Accuracy  $\pm 2\%$  (max)
- Quiescent Current 67uA (typ)
- Shutdown Current 0.01uA (typ)
- PSRR (typ) 70dB

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### Features

- High PSRR
- Ultra Low Power Consumption
- Space-saving Package (SOT-25)
- Fixed Output Voltage: 1.2V, 1.5V, 1.8V, 2.5V, 2.8V, 2.85V, 3.0V, 3.3V and 4.0V
- Low Dropout Voltage: 0.18V@ 300mA (VOUT=3.3V)
- Output Voltage Accurate within  $\pm 2\%$
- Excellent Line and Load Regulation
- Fast Response
- Output Current Limit and Thermal Shutdown
- Short Circuit Protection
- Low Temperature Coefficient

### Applications

- Power Source for Mobile and various kind of PCs
- Power Management of MP3, PDA, DSC, Mouse, PS2 Games
- Reference Voltage Source
- Regulation after Switching, Battery Powered and Handheld equipment
- Wireless LAN, Bluetooth, GPS Receivers
- Wireless Headphones, Cordless Phones

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