

# LDO Regulator V1.0

Based on LT1763 serie, 500 mA, Low Noise, LDO Micropower regulator

## Features:

- Output 3.3v (default) or 5.0v regulated by jumper JP1, JP2.
- Output voltage adjusted by value of 0805 resistance.
- Low Noise: 20 $\mu$ VRMS (10 Hz to 100 KHz).
- Output Current: 500mA.
- Low Quiescent Current: 30 $\mu$ A Special for battery powered devices.
- Wide Input Voltage Range: 1.8v to 20v.
- Low Dropout Voltage: 300mV.
- Very Low Shutdown Current: <1 $\mu$ A.
- No Protection Diodes Needed.

## Absolute Maximum Ratings:

VIN Pin Voltage.....	$\pm 20V$
VOUT Pin Voltage .....	$\pm 20V$
SHDN Pin Voltage.....	$\pm 20V$
Output Short-Circuit Duration.....	Indefinite

## Operations:

3 Jumper

Output 3.3v (default): JP1 open, JP2 close.

Output 5.0v: JP1 closed, JP2 open.

## Adjustable operation:

$$V_{out} = 1.22v \left( 1 + \frac{R_{adj}}{240k} \right) + I_{adj} \cdot R_{adj}$$

$$I_{adj} = 30nA \text{ at } 25^{\circ}C$$

$$V_{out} \text{ RANGE} = 1.22 \text{ to } 20V$$

