



# LC1210

## 200mA Low Consumption Linear Regulator

### DESCRIPTION

LC1210 series is a group of positive voltage output, low power consumption, low dropout voltage, three terminal regulator. It can provide 200mA output current when input / output voltage differential drops to 430mV ( $V_{out}=2.8V$ ), And it also provides foldback short-circuit protection and output current limit function. The very low power consumption of LC1210 ( $I_q=1.0\mu A$ ) can greatly improve natural life of batteries.

LC1210 can provide output value in the range of 1.1V~5.5V in 0.1V steps. It also can customized on command.

LC1210 includes high accuracy voltage reference, error amplifier, current limit circuit and output driver module.

LC1210 has well load transient response and good temperature characteristic, And it uses trimming technique to guarantee output voltage accuracy within  $\pm 2\%$ .

### ORDERING INFORMATION

LC1210 ①②③④⑤

Code	Description
①	Temperature&RoHS: C: -40~85°C, Pb Free RoHS Std. H: -40~85°C, Halogen Free
②	Package type: B3:SOT-23-3 B5:SOT-23-5 C3:SOT-89-3 C3B:SOT-89-3 (B) HA:TO-92 HB:TO-92
③	Packing type: TR:Tape&Reel (Standard) BG:Bag (TO-92) PT:Reel (TO-92)
④	Output voltage: e.g. 11=1.1V 15=1.5V 55=5.5V
⑤	Voltage accuracy: 1= $\pm 1\%$ Blank(default)= $\pm 2\%$

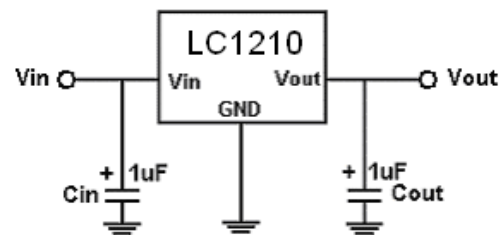
### FEATURES

- Low Power Consumption:1.0 $\mu A$  (Typ.)
- Maximum Output Current:200mA
- Small Dropout Voltage  
210mV@100mA ( $V_{out}=2.8V$ )  
430mV@200mA ( $V_{out}=2.8V$ )
- Input Voltage Range:1.5V~12V
- Output Voltage Range:1.1V~5.5V (customized on command in 0.1V steps)
- Highly Accurate: $\pm 2\%$ ( $\pm 1\%$  customized)
- Output Current Limit  
420mA@ $V_{out}=2.8V$
- Foldback Short-circuit Current  
90mA@ $V_{out}=2.8V$

### APPLICATIONS

- Battery Powered equipment
- Power Management of MP3、PDA、DSC、Mouse、PS2 Games
- Reference Voltage Source Regulation after Switching Power

### TYPICAL APPLICATION



**Note:** Input capacitor ( $C_{in}=1\mu F$ ) and Output capacitor ( $C_{out}=1\mu F$ ) are recommended in all application circuit. Tantalum capacitor is recommended.

### PIN CONFIGURATION

