



# ACE530C

## High PSRR Low Noise 300mA Dual LDO Regulators

### Description

The ACE530C Series are a group of dual channel low-dropout voltage regulators designed for portable and wireless applications that require high PSRR, low quiescent current and excellent line and load transient response. The ACE530C includes a reference voltage source, error amplifiers, driver transistors, current limiters and phase compensators internally. The ACE530C is stable with a small 1uF ceramic on the output, which is ideal for battery powered systems for delivering low dropout voltage and low quiescent current. It provides up to 300mA at each channel, from a 2.0V to 6.0V input. The ACE530C is available in 6 pin SOT-23-6 package.

### Features

- Shutdown Current: < 0.1μA
- Output Current: 300mA
- Output Voltage Range: 1.2V~5.0V, (selectable in 0.1V steps)
- High Accuracy: ±2% (Typ.)
- Dropout Voltage: 100mV@100mA (3.0V Typ.)
- Excellent Line Regulation: 0.01%/V
- Built-in Current Limiter
- Built-in Short Circuit Protection
- Static safety: 2KV@HBM
- TC: 100ppm/°C
- Low ESR Ceramic Capacitor Compatible

### Application

- Mobile phones
- WLAN and Bluetooth appliances
- Portable Audio Equipment
- Cordless telephone
- Cameras, Video recorders
- Battery powered portable devices

### Absolute Maximum Ratings

 Unless otherwise specified, T<sub>A</sub>=25°C

Parameter	Symbol	Max	Unit
Input Voltage	V <sub>IN</sub>	V <sub>SS</sub> -0.3~V <sub>SS</sub> +7	V
Output Current	I <sub>OUT1</sub> + I <sub>OUT2</sub>	700	mA
Output Voltage	V <sub>OUT</sub>	V <sub>SS</sub> -0.3~V <sub>IN</sub> +0.3	V
Power Dissipation	SOT-23-6 Pd	250	mW
Operating Temperature	T <sub>opr</sub>	-40~85	°C
Storage Temperature	T <sub>stg</sub>	-40~125	°C
Soldering Temperature & Time	T <sub>solder</sub>	260 °C, 10s	

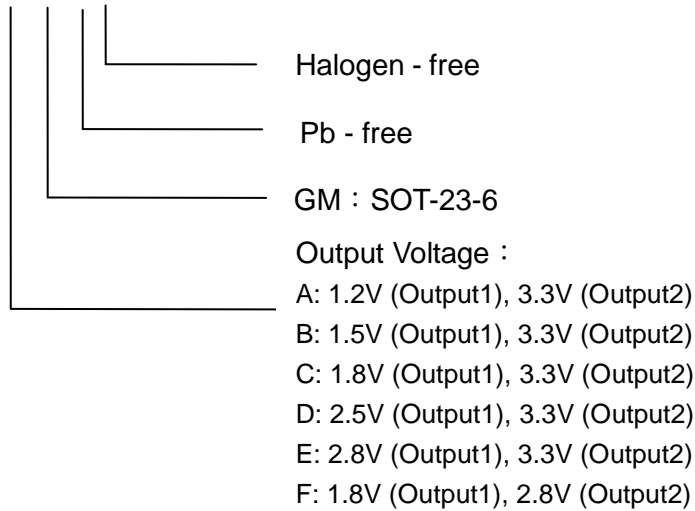


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### Ordering information

ACE530C X XX + H





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### Notes

ACE does not assume any responsibility for use as critical components in life support devices or systems without the express written approval of the president and general counsel of ACE Electronics Co., LTD. As used herein:

1. Life support devices or systems are devices or systems which, (a) are intended for surgical implant into the body, or (b) support or sustain life, and whose failure to perform when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in a significant injury to the user.
2. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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