



# ACE73208NC

## Step Down DC/DC Switch Regulator

### Description

ACE73208NC is a step-down DC/DC switch regulator. It provides wide input voltage from 8V ~ 80V and a 80V / 10A Power MOS inside. ACE73208NC provides low power consumption in standby mode, high efficiency, low ripple, excellent Bus voltage regulation and load regulation. ACE73208NC's capable of delivering up to 3.5A output current. ACE73208NC operates in the continuous conduction mode with fixed frequency PWM. The typical switch frequency is 140KHz. It will reduce frequency when in slight load to get perfect efficiency. ACE73208NC internal circuit includes soft-start, over temperature protect, output short protect, over current protect and limit current protect. They will increase reliability. The ACE73208NC is available in ESOP-8 package. The thermal pad in connect VIN.

### Features

- Wide Input Voltage Range: 8V to 80V
- Output Voltage Adjustable from 4.2V ~ 30V
- Support Constant Voltage output and Constant Current output
- Support 12V/3.5A, 5V/3.5A
- High Efficiency up to 96%
- Switch Frequency: 140KHz
- Low power consumption in standby mode
- Over Temperature Protect and Output Short protect
- Soft-Start

### Applications

- Tracker
- Constant Voltage
- Electric Vehicle, Electric Scooter
- Truck and Swing Car



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### Absolute Maximum Ratings <sup>Note (1)</sup>

Parameter	Symbol	Range	Unit
The maximum voltage of VIN	$V_{IN}$	80	V
The maximum voltage of VDD	$V_{DD}$	20	V
Voltage of FB1, FB2, VCC, VSEN, VSEND	$V_{max}$	-0.3~6	V
Maximum Power dissipation	PD	1	W
Operating Junction Temperature	$T_J$	-40 to 125	°C
Storating Temperature	$T_{STG}$	-40 to 125	°C
Lead Temperature (Soldering, 30 sec.)	$T_{SD}$	250	°C
ESD (HBM)	$V_{ESD}$	2000	V

Note: (1). Exceeding these ratings may damage the device. The device is not guaranteed to function outside of its operating conditions.

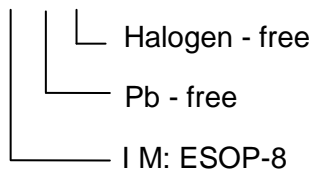


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## Ordering Information

ACE73208NC 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 Technology 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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