



## CX8802/100V Input,1.5A Output,Non- Synchronous Step- down Converter

### Description

The CX8802 is a high voltage, non-synchronous step-down converter operates over a wide range input voltage 9V to 100V. The CX8802 integrates a 120V 400-mΩ high-side MOSFET.

The CX8802 delivers 1.5A continuous load current with up to 95% efficiency.the CX8802 operates with fixed frequency peak current control with built-in compensation eliminates the need for external components.

Cycle-by-cycle current limit in high-side MOSFET protects the converter in an overload condition.Hiccup mode protection is triggered if the over current condition has persisted for longer than the present time.

The CX8802 exhibits protection features that protect the load from faults like under-voltage,over-current and over-temperature.

### Features

- 9V to 100V input voltage range
- 1.5A current limit
- 1A continuous load current
- 95% Peak Efficiency
- 400μA operating quiescent current
- 120V 400-mΩ high-side MOSFET
- Peak Current mode control
- 150kHz Fixed Frequency
- Internal compensation for ease of use
- Up to 92% duty cycle
- 0.8V voltage reference
- 10UA shutdown current
- 150ms Hiccup mode short circuit protection Function
- Thermal shutdown Function
- ESOP-8 package

### Application

- Charger in vehicle
- Battery Chargers
- Power adapter

### Ordering Information

| PART NUMBER | Temperature range | PACKAGE | Number of pins | Wrapping method | Top label              |
|-------------|-------------------|---------|----------------|-----------------|------------------------|
| CX8802      | -40°C~140°C       | ESOP-8  | 8              | Tape            | CX8802<br>XXXXXXXXYYWW |

Note:The screen printing batch of the top label (XXXXXXXXYYWW) will change according to the time of production.