

DESCRIPTION

HC2018 has an optimum input voltage, step-down converter that operates in either CV (Constant Output Voltage) mode or CC (Constant Output Current) mode. The maximum input voltage is up to 36V, MOSFET, what build in 50mΩ High-Side and 30mΩ Low-Side, could deliver up to 2.4A of continuous output current.

External compensation is not needed. The line compensation and the constant current can be set by an external resistance.

In conclusion, HC2018 is a full function and high performance, high reliability buck DC-DC converter.

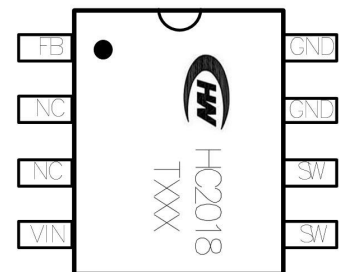
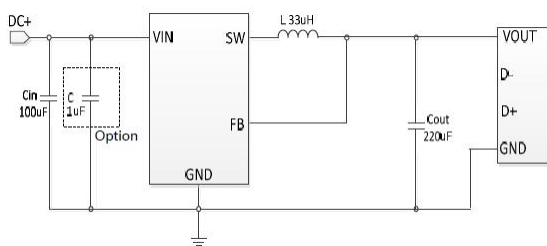
FEATURES

- Build in High-Side and Low-Side MOSFET
- Max Output Current: 2.4A
- Constant Voltage Accurate: $\pm 2\%$
- No External Compensation Needed
- Efficiency: Up to 92%
- Short Circuit Protection
- Over Voltage Protection
- Thermal shutdown Protection
- Under Voltage Lock-Out
- Available in SOP-8 package
- ESD HBM >5KV

APPLICATIONS

- Car DVD
- Black Box
- Car Charger
- Industry Application

TYPICAL APPLICATION



SOP-8

PIN OUT & MARKING

Note: 1) It is recommended to use C_{in} and C_{out} as high-frequency low-ESR capacitors for Rubycon and Würth.

2) The inductor core is recommended for the iron silicone Aluminum ring.

HC2018: Product Code
TXXX: Date code (Year & Week)