

DC-DC Buck-Mode Power Module (5.5~28V to 3.3V 3A)

SKU:DFR0570

INTRODUCTION

This is a DC-DC buck-mode power module, with input voltage range 5.5~28V and fixed output voltage/current 3.3V/3A. Its work frequency can reach to 0.5MHz. The module has high conversion and tiny body, convenient to embed.

Besides, it has steady output voltage, which can work long time without voltage shift and is suitable for the occasion with high requirements. The product can work with high-capacity and high-voltage batteries to DIY mobile powers. It can also be embedded into projects to provide multiple power options.

FEATURES

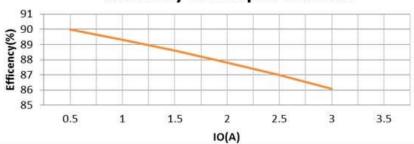
• Small size, stable performance, wide voltage range for a variety of DIY applications

APPLICATIONS

Power supply for controller main-board, DIY current source, floodlight, DIY toy car, communication device, digital radio

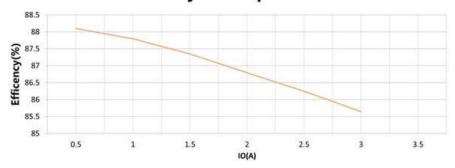
(VIN=8V VO=3.3V FS=0.5MHz)

Efficency vs Output Current



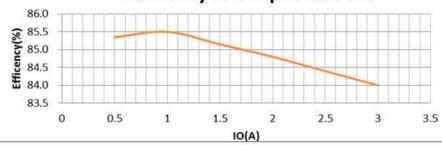
(VIN=12V VO=3.3V FS=0.5MHz)

Efficency vs Output Current



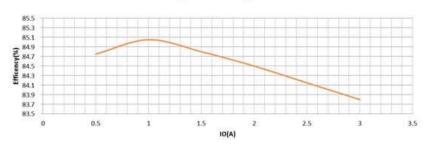
(VIN=24V VO=3.3V FS=0.5MHz)

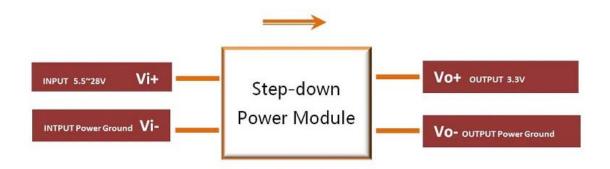
Efficency vs Output Current



(VIN=28V VO=3.3V FS=0.5MHz)

Efficency vs Output Current





SPECIFICATION

Input Voltage: 5.5~28Vdc
 Output Voltage: 3.3V
 Output Accuracy: ±0.1V

The Maximum Output Peak Current: 3AFull-Load Output Ripple: Vpp<50mV

• No-Load Current: IQ 0.5mA

• Switch-Off Function: Not Support

Operating Temperature: -20°C ~ +85°C

• Operating Humidity: 20% ~ 90% relative humidity, no condensation

Storage Temperature: -40°C ~ +125°C
Installation Method: Chip-mounting

• With or Without Isolation: Without Isolation

• Service Life: 30000h

• Dimension: 16.5×22mm/0.65×0.87inch

NOTE

- 1. The input voltage must within 28V.
- 2. Load current should not be in 3A or above for a long time, otherwise it will affect the service life of the module and even burn out.
- 3. If the load current is relatively high, you should increase the minimum input voltage to ensure normal operation.

SHIPPING LIST

DC-DC Buck-Mode Power Module (5.5~28V to 3.3V 3A) x1

