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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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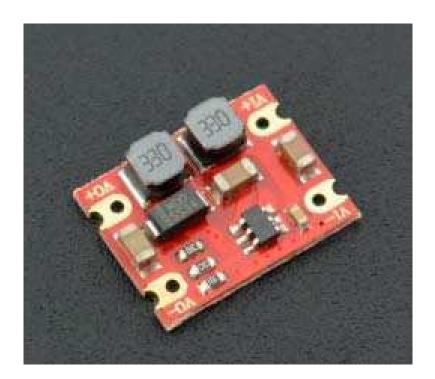
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DC-DC Automatic Step Up-down Power Module (2.5~15V to 3.3V 600mA)

SKU:DFR0568

INTRODUCTION

This power module contains the function of automatic buck-boost and integrates with the related circuit of buck-boost converter. Its mini body is very easy for embedding. Input voltage range 2.5-15V, fixed output voltage 3.3V, the maximum load current is 0.6A and its quiescent current is as low as 200uA. In theory, the work frequency of the module can reach to 1.2MHz. Besides, it has steady output voltage, which can work long time without voltage shift and is suitable for the occasions with high requirements. You can use this power module to DIY mobile power bank and provide constant power for your project.

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.

Serial number	Name	Direction	Application
1	Vo+	output	Output positive current source
2	Vo-	output	Ground wire, output port current source reference
3	Vi-	input	Ground wire, link to current source reference
4	Vi+	input	Power supply input:2.5-15Vdc

Figure 1. Interface Description

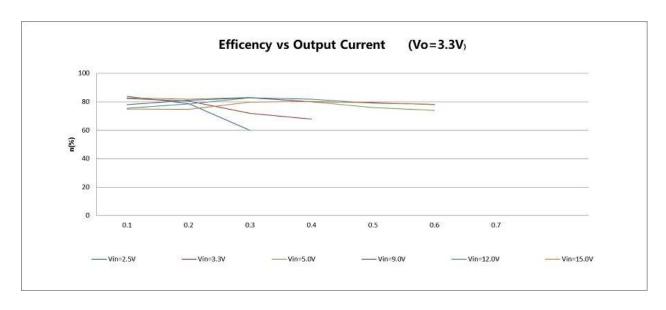


Figure 2. Typical Performance Characteristics (Conversion)

SPECIFICATION

Input Voltage: 2.5~15Vdc
Output Voltage: 3.3V
Output Accuracy: ±0.1V

The Maximum Output Peak Current: 600mA

Full-load Output Ripple: Vpp<50mV

No-load Current: IQ 180uA

Switch-off Function: Not Support

Operating Temperature: -40°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

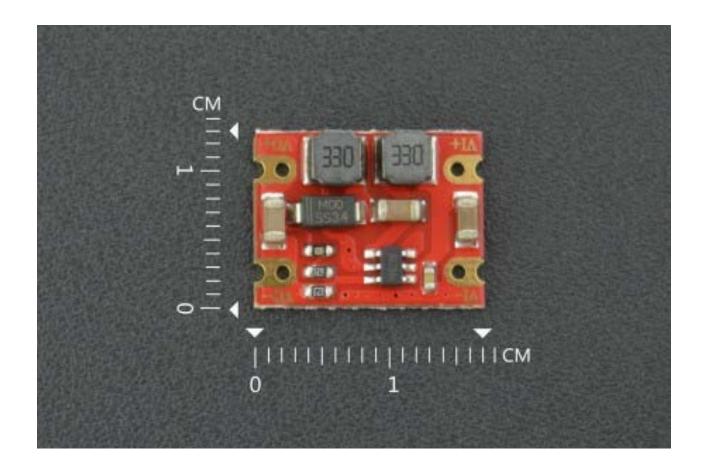
• Dimension: 17×13mm/0.67×0.51inch

NOTE

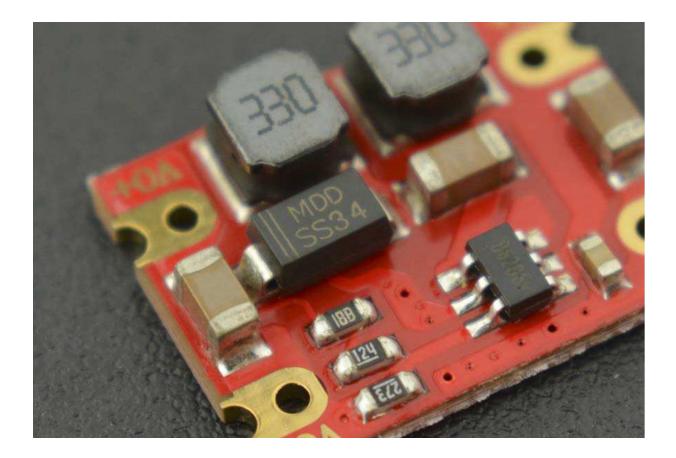
- 1. The input voltage must within 15V.
- 2. Load current should not be in 600mA or above for a long time, otherwise it will affect the service life of the module and even burn out.
- 3. If the load current is relatively high, you should increase the minimum input voltage to ensure normal operation.

SHIPPING LIST

DC-DC Automatic Step Up-down Power Module (2.5~15V to 3.3V600mA) x1







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