Boost from Low Input Voltage to 3.3-5.0V!

3 Watt VUP Series







Line Reg.

%(typ.)

%(typ.)



Load Reg. Ripple Noise Efficiency

mVpp(typ.)

10

%(typ.)

82

(86)

Minimum Size, Step-Up DC-DC Converter

Input: 1.3V to 4.2V Output: 3.3V (3.3V to 5.0V)

Models

VUP Series

VUP-3.3S0R9

VUP-3.3S0R9D

input voltage.

Voltage can be optionally set with external resistors. (Ex.: 3.3V, 4.0V, 5.0V)

Output I

0-0.9

Note 1: Regarding this converter, for normal operation the output voltage needs to be higher than that of the

Output V

Vdc

3.3

Efficience	y 86%	(at 0	.7A	load
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- Efficiency 90% (at 0.5A load)
- Latest Technology, Synchronous Rectification Circuit
- Non-Isolated Type Converter
- Wide Input Voltage Range
- Remote ON/OFF Control
- Adjustable Output Voltage
- High Reliability, High Performance
- Operating Temp Range
- -20°C to +70°C

(Temp Derating Required)

- RoHS Compliance

nance Note

Note 2: Ripple noise, efficiency value is when input voltage is at 2.5V.

Input V

Vdc

1.3 - (4.2)

Input voltage range at 3.3V output ----- 1.3V-2.8V

Input voltage range at 5.0V output ----- 1.3V-4.2V

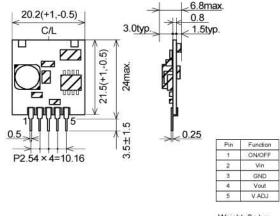
Note 3: Efficiency () value is at 0.7A load. Note 4: Ripple noise is measured at 20MHz bandwidth.

Note 5: Depending on the ambient air temp conditions, air flow cooling is required.

Note 6: For this product, there is a limit of max. output current depending on the input voltage. Refer to the data sheet.

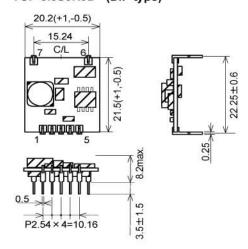
<Outline>

VUP-3.3S0R9 (SIP type)



Weight: 3g typ. Units: mm

VUP-3.3S0R9D (DIP type)

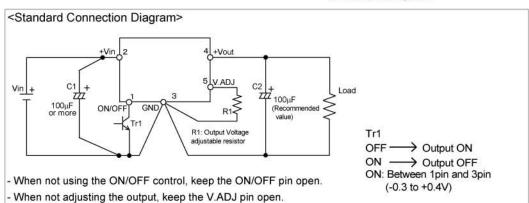


Pin	Function	
1	ON/OFF	
2	Vin	
3	GND	
4	Vout	
5	V.ADJ	
6	Test pin *1	
7	NC	

Weight: 3g typ Units: mm

*1 This pin is for testing.

Do not connect to anywhere



· Low impedance product should be used for the input capacitor (C1), and put close to the pins (2pin, 3pin).

- Note!

This catalogue is an outline of the products.

When designing, be sure to refer to the data sheets.

DC-DC CONVERTERS BDD2008.12A

Be sure to use an input and output capacitor. Output capacitor: ESR• 25mΩ.