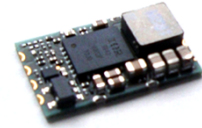


Ultra Small • Ultra Thin !

4A/8A BSK Series



Ultra Small, SMD type, Non-Isolated DC-DC Converter

Input: +5.6V to +14.0V Output: +0.8V(+0.8V to +6.6V)

Voltage can be optionally set with external resistors. Ex. : 0.8V,1V,1.2V,1.5V,1.8V,2.5V,3.3V,5V,6V,6.6V

- Ultra Small, Ultra Thin
- ON/OFF Control
- SMD
- High Efficiency
- Adjustable Output Voltage
- Over Current Protection
- Under Voltage Lockout
- Operating Temp. -40°C to +85°C
- Ambient Temp up to 85°C Derating not required (Limited to 3A product)
- Non-Isolated Converter
- RoHS Compliance

Models BSK Series	Input V Vdc	Output V Vdc	Output I A	Line Reg. %(typ.)	Load Reg. %(typ.)	Ripple Noise mVpp(typ.)	Efficiency %(typ.)
BSK12-0.8S04PDM	5.6 to 14.0	0.8	0 to 4	0.2	0.6	40	90.0
BSK12-0.8S08PDM		(0.8 to 6.6)	0 to 8	0.2	0.8	40	88.0

Note1: The output voltage inside the () indicates the adjustable range.

Note2: Ripple noise and efficiency values are when input voltage is 12V, output voltage is 3.3V and the load is rated.

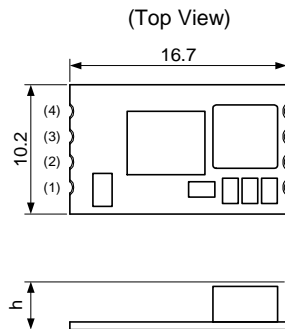
Note3: Ripple noise is measured by 20MHz bandwidth with the following ceramic capacitors.

4A product: 47µF at input, 10µF at output

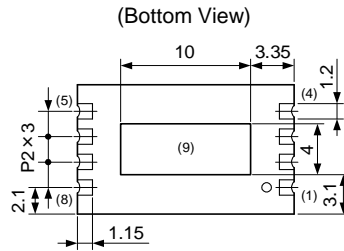
8A product: 47µF×2 at input, 22µF at output

Note4: Depending on the ambient temp condition, cooling air flow may be required.

<Outline>



h : 2.8 (4A)
3.8 (8A)

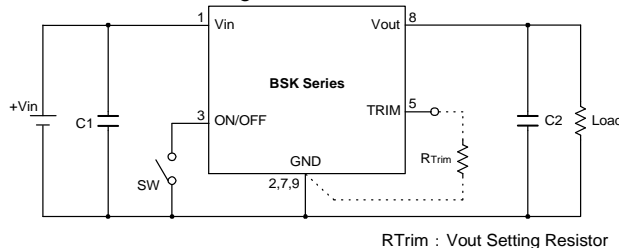


※(9)GND(Thermal Pad)
=8A type only

Pin	Function
1	Vin
2	GND
3	ON/OFF
4	NC
5	TRIM
6	POWER GOOD
7	GND
8	Vout
9	GND(Thermal Pad) =8A type only

Weight: 1.1g typ.(4Atype)
Weight: 1.3g typ.(8Atype)
Unit: mm

<Standard Connection Diagram>



Recommended Capacitors

4A product : C1=47µF

C2=10µF

8A product : C1=47µF×2pcs

C2=22µF

- SW: Output goes OFF when short.
- TRIM : When open, the output voltage is 0.8V.
- When adjusting the output voltage, connect Rtrim between TRIM pin and GND pin.
- 9 Pin GND(Thermal Pad) = 8A type only.

·Note !

This catalogue is an outline of the products. When designing, be sure to refer to the data sheets.