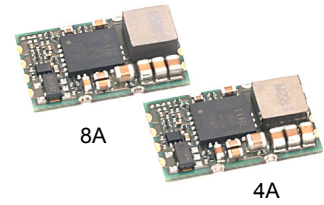


Ultra Small · Ultra Thin !

## 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 4A 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.)
<b>BSK12-0.8S04PDM</b>	12	0.8	0 - 4	0.2	0.6	35	90.5
<b>BSK12-0.8S08PDM</b>	(5.6 - 14)	(0.8 - 6.6)	0 - 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.

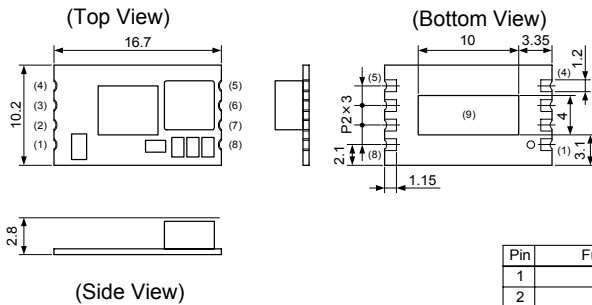
4A product: 47μF at input, 10μF+1μF at output

8A product: 47μF×2 at input, 22μF+1μF at output

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

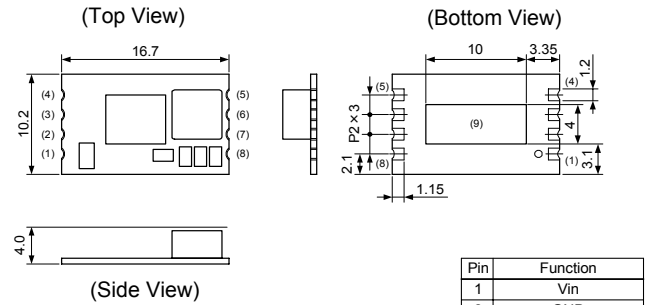
<Outline>

- 4A type



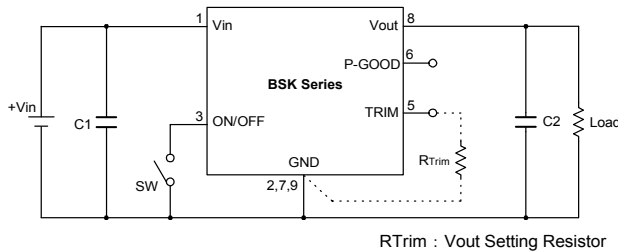
Pin	Function
1	Vin
2	GND
3	ON/OFF
4	NC
5	TRIM
6	POWER GOOD
7	GND
8	Vout

- 8A type



Pin	Function
1	Vin
2	GND
3	ON/OFF
4	NC
5	TRIM
6	POWER GOOD
7	GND
8	Vout

#### <Standard Connection Diagram>



Recommended Capacitors

4A product : C1=47μF

C2=10μF+1μF

8A product : C1=47μF×2pcs

C2=22μF+1μF

- 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.

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