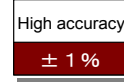
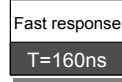


Bellnix® High Speed Load Response, Non-isolated Type POL DC-DC Converter



Ultra small type and responds to latest Digital LSI

9.5A BSV-HE Series



High speed response, Output accuracy $\pm 1\%$ step down DC-DC converter

Input: +3.0V to +5.5V Output: +1.8V (+0.8V to 1.8V)

Desired voltage can be set using an external resistance (Ex. 0.8V, 1V, 1.2V, 1.5, 1.8V)

- High speed response
- Output set accuracy $\pm 1\%$
- High efficiency
- Over current protection
- Low input protection
- On/Off control
- Variable output voltage
- Surface mount package(SMD)
- External capacitor not required
- Heat sink not required
- Non isolated DC-DC converter
- Operating temp range
-40°C to +85°C
(Temp derating required)
- RoHS Compliance
- Low cost

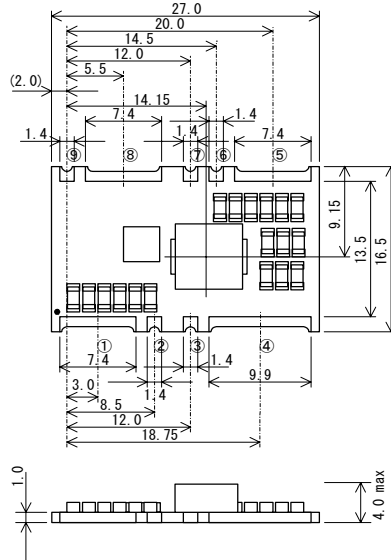
Models	Input V	Output V	Output I	Line Reg.	Load Reg.	Ripple Noise	Efficiency
BSV-HE Series	Vdc	Vdc	A	%(typ.)	%(typ.)	mVpp(typ.)	%(typ.)
BSV-1.8S9R5HE	3.0-5.5	1.8 (0.8-1.8)	0-9.5	0.5	0.5	20	86

Note 1: Ripple noise and efficiency is when output voltage is 5V, output voltage is 1.8V and rated load value.

Note 2: Ripple noise is measured at 20MHz bandwidth, with a multi layered ceramic capacitor with 47 μ Fx2 at input and 4.7 μ F at output.

Note 3: Air flow cooling may be required depending on the ambient temperature.

<Outline>



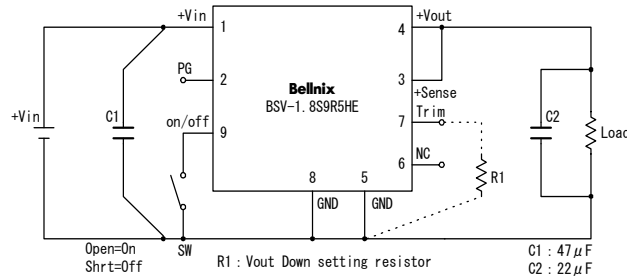
Pin no.	Function
1	+Vin
2	P-Good
3	+Sense
4	+Vout
5	GND
6	NC
7	Trim
8	GND
9	On/Off

Units : mm

Tolerances unless otherwise specified : ± 0.5

Weight : 2.2g typ.

<Standard connection diagram>



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

- SW1 : When shorted, the output will turn off.
- Trim : When open, the output voltage will be the rated value.
- When adjusting the output voltage, connect R1 between Trim pin(7pin) and the GND pin(5pin)