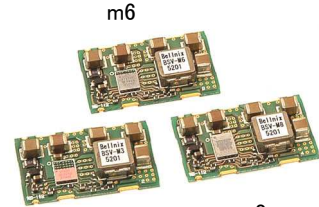


Bellnix® High-Speed Load Response, Non-Isolated Type POL DC-DC Converter

SMD Correspondence, Able to drive the Latest LSI with High-Speed Load Response!



3A/6A/8A BSV-m Series (m3, m6, m8)



High-Speed Load Response, Step-Down DC-DC Converter

Input: +3.0V to +5.5V Output: +3.3V (+1.0V to +3.3V)

Voltage can be optionally set with external resistors. (Ex.: 1V, 1.2V, 1.3V, 1.5V, 1.8V, 2V, 2.5V)

- Ultra Small Size 15×24mm
- Ultra Thin Type 4mm
- High-Speed Load Response
- Ultra High Efficiency
- Over-Current Protection
- External Capacitors Not Required
- Heat Sink Not Required
- Non-Isolated Type Converter
- Under Voltage Lock Out
- Remote ON/ OFF Control
- Adjustable Output Voltage
- Surface Mount Package (SMD)
- Simple Structure and High Heat Release
- Operating Temp Range -40°C to +85°C (Temp Derating Required)
- RoHS Compliance

Models BSV-m Series	Input V Vdc	Output V Vdc	Output I A	Line Reg. %(typ.)	Load Reg. %(typ.)	Ripple Noise mVpp(typ.)	Efficiency %(typ.)
BSV-3.3S3R0M	3.0-5.5	3.3	0-3	0.5	1.0	30	96
BSV-3.3S6R0M		(1.0 to 3.3)	0-6			50	94
BSV-3.3S8R0M			0-8			50	96

Note 1: When adjusting the output voltage, the input and output voltage difference needs to be 0.5V or more.

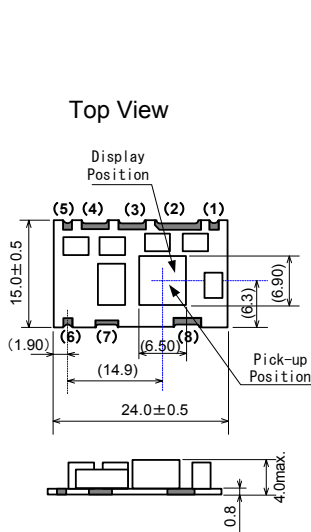
$$V_{in}(V) - V_o(V) \geq 0.5V$$

Note 2: Ripple noise, efficiency value is at $V_{in}=5V$, $V_o=3.3V$ and $I_o=\max$.

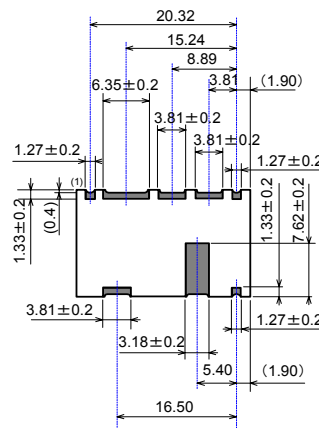
Note 3: Ripple noise is measured at 20MHz bandwidth.

Note 4: Depending on conditions, air flow cooling maybe required.

<Outline>



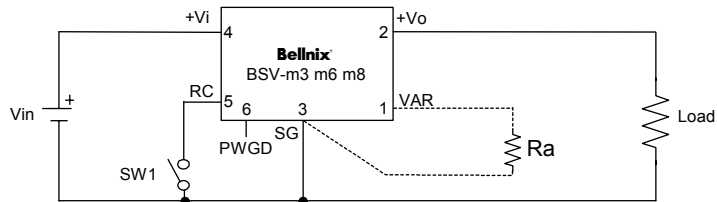
Bottom View



Pin	Function
1	VAR
2	+Vo
3	SG
4	+Vi
5	RC
6	PWGD
7	HS
8	NC

Units: mm
Weight: 2.7g typ.
Tolerances unless otherwise specified : ±0.5

<Standard Connection Diagram>



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

- SW1: Output goes OFF when short.
- VAR: Rated output voltage applies when open.
- Ra: When adjusting the output voltage, connect Ra between VAR pin and SG pin.