



BUD Series

Ideal for supplying power to analog circuits from unstable voltages such as batteries and unstable power supplies

Input: +3 to +18V

Output: ±3 to ±18V

- Wide input/ output
- Buck-boost type
- ± Output
- Ultra small size: SMD package (10x11x6mm)
- High efficiency
- Maximum 1.8W output (Input/ output voltage derating required)
- Over-power protection
- Low input voltage protection
- Remote ON/OFF control
- Equipped with skip mode at light load
- Non-isolated type
- Operating temp. $T_a = -40^{\circ}\text{C}$ to $+85^{\circ}\text{C}$
- RoHS compliance
- Output voltage setting is determined by the single resistor

Model BUD Series	Input V Vdc	Output V Vdc	Output P W	Line Reg. %(typ.)	Load Reg. %(typ.)	Ripple Noise mVpp(typ.)	Efficiency %(typ.)
BUD12-12W042	12V (3 to 18)	±12V (±3 to ±18)	1 (±0.5W each)	0.35	0.5	10	87.5 ($P_o=0.8W \times 2$)

Note 1: Unless otherwise specified, the product is measured at input voltage 12V, output voltage ±12V, output power 0.5W×2, and ambient temp. $25^{\circ}\text{C} \pm 5^{\circ}\text{C}$.

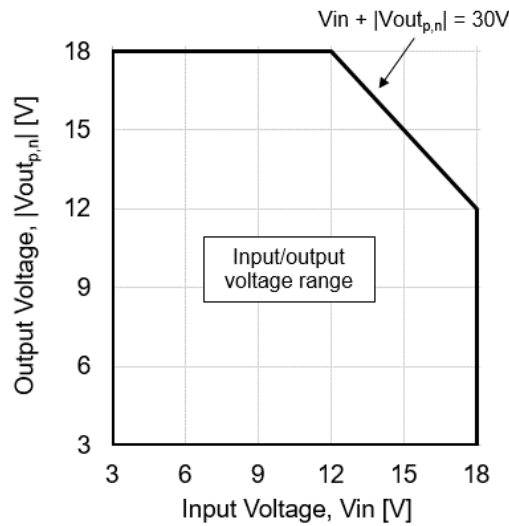
Note 2: Ripple noise is measured at BW=20MHz.

Note 3: The usable input/ output voltage range is within the range shown in the figure below.

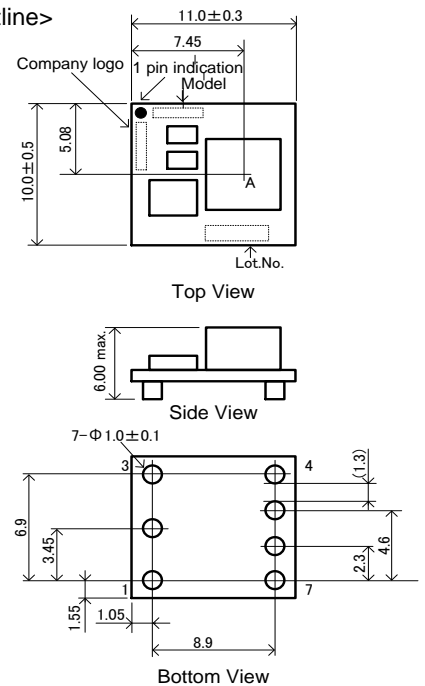
Note 4: The output voltage setting values for ± outputs are equal ($V_{outp} = |V_{outn}|$).

Note 5: Output power can be up to 1.8W (±0.9W each) depending on input / output conditions.

<Input/ Output voltage range>

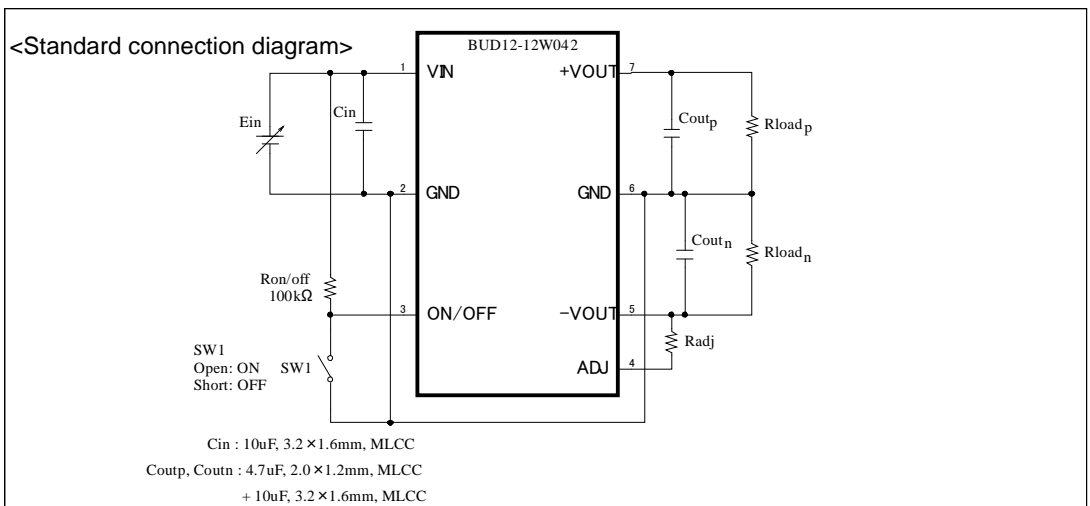


<Outline>



Unit: mm

Tolerances unless otherwise specified: ±0.2mm



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