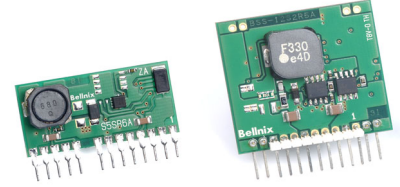


Achieved high efficiency at a low price!

0.6A/2.5A BSS-A series



High efficiency, small size step down DC-DC Converter

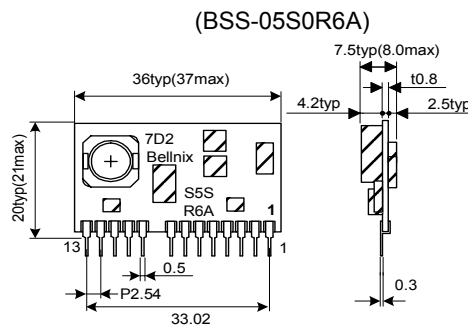
Input: +7 to +36V Output: +5V (+3.3 to +24V)
Input: +15 to +36V Output: +12V (+9.5 to +15V)

- Radiation board and air flow not required
- High efficiency 70 to 94%
- Variable output voltage
- Non isolated converter
- Over current protection
- Tantalum condenser not required
- Wide input voltage range
- Wide output voltage range
- Remote ON/OFF control
- Synchronous feature (2.5A products only)
- High reliability and high performance
- Operating temp range -10°C to +80°C (Temp derating required)
- RoHS compliance

Models BSS-A Series	Input V Vdc	Output V Vdc	Output I A	Line Reg. %(typ.)	Load Reg. %(typ.)	Ripple Noise mVp-p(typ.)	Efficiency %(typ.)
BSS-05S0R6A	+7 to +36	+3.3 to +24	0-0.6	0.5	0.5	50	75
BSS-12S2R5A	+15 to +36	+9.5 to +15	0-2.5	0.5	1	50	94

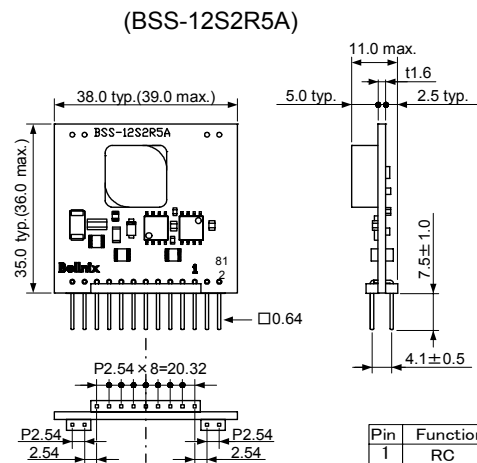
- Note 1: An external capacitor is required
- Note 2: A difference in input and output voltage is required
- Note 3: According to the input/output conditions, derating may be required.
- Note 4: The ripple noise is when an external capacitor has been installed.
- Note 5: The efficiency rate is at rated input/output value.

<Outline>



Pin	Function
1	NC
2	+Vin
3	+Vin
4	C
5	NC
6	RC
7	G
8	NC
9	SYNC
10	NC
11	V.adj
12	NC
13	+Vout

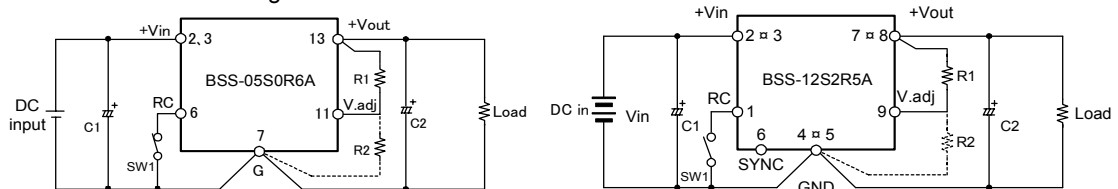
Units: mm
 Tolerances unless otherwise specified: ±0.5
 Weight: 4.0g typ.



Pin	Function
1	RC
2	+Vin
3	+Vin
4	GND
5	GND
6	SYNC
7	+Vout
8	+Vout
9	V.adj

Units: mm
 Tolerances unless otherwise specified: ±0.5
 Weight: 4.0g typ.

<Standard connection diagram>



C1: ELXV500ELL121M
 (NIPPON CHEMI-CON Capacitor: 50V, 120µF)
 C2: ELXV500ELL331M
 (NIPPON CHEMI-CON Capacitor: 50V, 330µF)
 RC: 6-7 SHORT=OUTPUT ON, OPEN=OUTPUT OFF
 11PIN: OPEN Vout=5V
 SW1: SHORT -> OUTPUT ON
 OPEN -> OUTPUT OFF

C1: ELXV500ELL102ML30S
 (NIPPON CHEMI-CON Capacitor: 50V, 1000µF)
 C2: ELXV250ELL102MK25S
 (NIPPON CHEMI-CON Capacitor: 25V, 1000µF)
 R1: Vout Down Resistor(9.5V-12V)
 R2: Vout Up Resistor(12V-15V)
 SW1: SHORT -> OUTPUT ON
 OPEN -> OUTPUT OFF

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