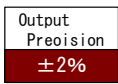
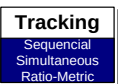


Bellnix Tracking Function, Non-Isolated Type POL DC-DC Converter



World Standard Size!

6A/10A/16A BST Series



Low Price, Tracking Function, Step Down DC-DC Converter

Input: +2.8 to +5.5V Output: +0.75V to +3.3V
Input: +10 to 14V Output: +0.75V to +5.0V

Voltage can be optionally set with external resistors. (Ex.: 1V, 1.2V, 1.5V, 1.8V, 2.5V, 3.3V, 5V)

- Tracking Function
- Sequential Operation
- Simultaneous Tracking Operation
- Ratio-Metric Tracking Operation
- Remote ON/ OFF Control
- Industry's Standard Package
- Surface Mount Package (SMD)
- Ultra High Efficiency
- Adjustable Output Voltage
- Over-Current Protection
- No Electrolytic Capacitor, No Tantalum Capacitor
- Operating Temp Range -40°C to +85°C (Temp Derating Required)
- RoHS Compliance
- DOSA Compatible

Models	Input V	Output V	Output I	Line Reg.	Load Reg.	Ripple Noise	Efficiency
BST Series	Vdc	Vdc	A	%(typ.)	%(typ.)	mVpp(typ.)	%(typ.)
BST04-0.7S06PCM	2.8-5.5	0.75-3.3	6	0.3	0.4	40	94
BST12-0.7S06PCM	10-14	0.75-5.0		0.2		30	91.5
BST04-0.7S10PCM	2.8-5.5	0.75-3.3	10	0.3	0.4	25	96
BST12-0.7S10PCM	10-14	0.75-5.0				30	94.5
BST04-0.7S16PCM	2.8-5.5	0.75-3.3	16	0.3	0.4	25	95
BST12-0.7S16PCM	10-14	0.75-5.0				30	93.5

Note 1: When the output voltage is not adjusted, the rated output voltage is $V_o=0.75V$.

Note 2: When adjusting the V_{out} , the input and output voltage difference must be greater than 0.5V.

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

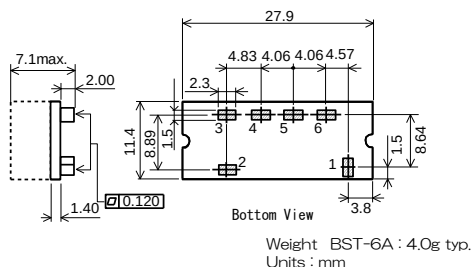
Note 3: Ripple noise is measured at 20MHz bandwidth.

Note 4: Efficiency is when BST04 series is at: $V_{in}=5V, V_o=3.3V$ and BST12 series is at: $V_{in}=12V, V_o=5V$ respectively.

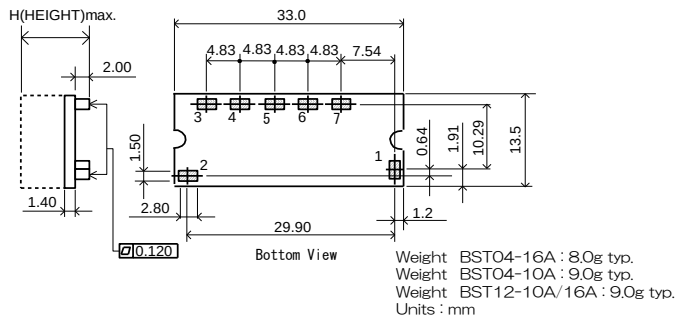
Note 5: Depending on the ambient temp conditions, air flow cooling is required.

<Outline>

(6A series)



(10/16A series)



- Note!

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

Pin	Function
1	On/Off
2	V_{in}
3	Seq
4	Gnd
5	Trim
6	V_{out}

Pin no. is not shown on the converter.

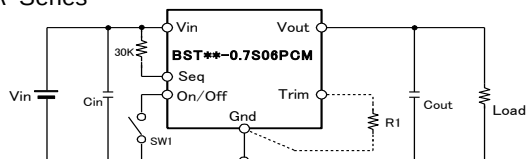
Model	H(Height)
BST04	8.3
BST12	9.7

Pin	Function
1	On/Off
2	V_{in}
3	Seq
4	Gnd
5	V_{out}
6	Trim
7	Sense

Pin no. is not shown on the converter.

<Standard Connection Diagram>

BST-6A Series

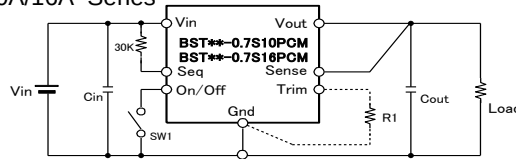


C_{in} : BST04=47 μ F Ceramic capacitor//2 $\times$ 100 μ F Tantalum capacitor
 BST12=2 $\times$ 22 μ F Ceramic capacitor

C_{out} : 1 μ F Ceramic capacitor//10 μ F Tantalum capacitor
 (Common for BST04 and 12)

R1: V_{out} up Resistor

BST-10A/16A Series



C_{in} : BST04=47 μ F Ceramic capacitor//2 $\times$ 100 μ F Tantalum capacitor
 (Common for 10A and 16A series)

BST12 (10A series)=4 $\times$ 22 μ F Ceramic capacitor
 BST12 (16A series)=6 $\times$ 22 μ F Ceramic capacitor

C_{out} : 1 μ F Ceramic capacitor//10 μ F Tantalum capacitor
 (Common for BST04 and 12)

R1: V_{out} up Resistor