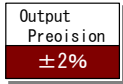
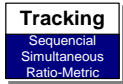




# THE DATASHEET OF BST12-0.7S16PCM



# 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/+0.75 to +3.3V**  
**Input: +10 to 14V        Output: +0.75V/+0.75 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.)
<b>BST04-0.7S06PCM</b>	2.8-5.5	0.75-3.3	6	0.3	0.4	40	94
<b>BST12-0.7S06PCM</b>	10-14	0.75-5.0		0.2		30	91.5
<b>BST04-0.7S10PCM</b>	2.8-5.5	0.75-3.3	10	0.3	0.4	25	96
<b>BST12-0.7S10PCM</b>	10-14	0.75-5.0		0.3		30	94.5
<b>BST04-0.7S16PCM</b>	2.8-5.5	0.75-3.3	16	0.3	0.4	25	95
<b>BST12-0.7S16PCM</b>	10-14	0.75-5.0		0.3		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.

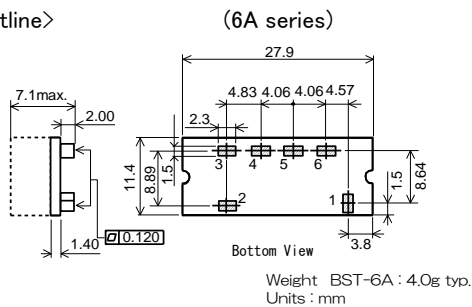
$$V_{in}(V) - V_o(V) \geq 0.5V$$

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>

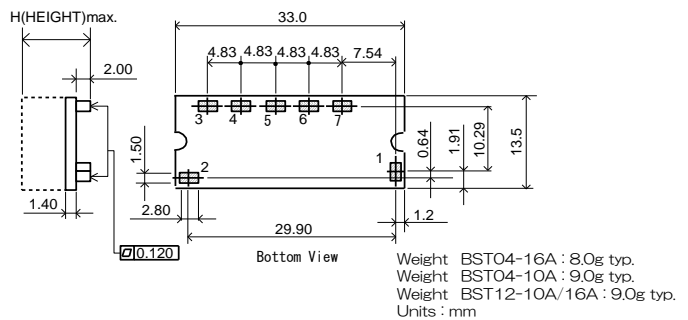


Pin	Function
1	On/Off
2	Vin
3	Seq
4	Gnd
5	Trim
6	Vout

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

Pin no. is not shown on the converter.

(10/16A series)



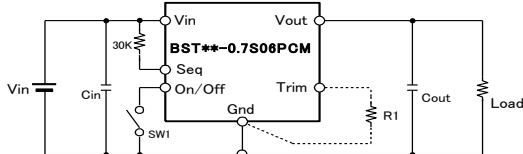
Pin	Function
1	On/Off
2	Vin
3	Seq
4	Gnd
5	Vout
6	Trim
7	Sense

Pin no. is not shown on the converter.

Model	H(Height)
BST04	8.3
BST12	9.7

### <Standard Connection Diagram>

#### BST-6A Series

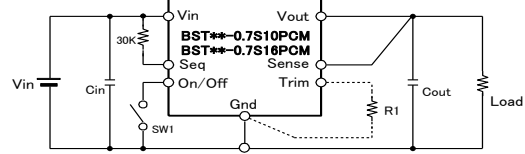


Cin: BST04=47μF Ceramic capacitor//2x100μF Tantalum capacitor  
BST12=2x22μF Ceramic capacitor

Cout: 1μF Ceramic capacitor//10μF Tantalum capacitor  
(Common for BST04 and 12)

R1: Vout up Resistor

#### BST-10A/16A Series



Cin: BST04=47μF Ceramic capacitor//2x100μF Tantalum capacitor  
(Common for 10A and 16A series)

BST12 (10A series)=4x22μF Ceramic capacitor  
BST12 (16A series)=6x22μF Ceramic capacitor

Cout: 1μF Ceramic capacitor//10μF Tantalum capacitor  
(Common for BST04 and 12)

R1 : Vout up Resistor

## Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

- [View BST12-0.7S16PCM on WIN SOURCE](#)
- [Bellnix Co., Ltd. Information](#)

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