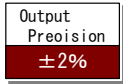




THE DATASHEET OF BST04-0.7S06PCM



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.) |
| 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 | | 0.3 | | 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 | | 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.

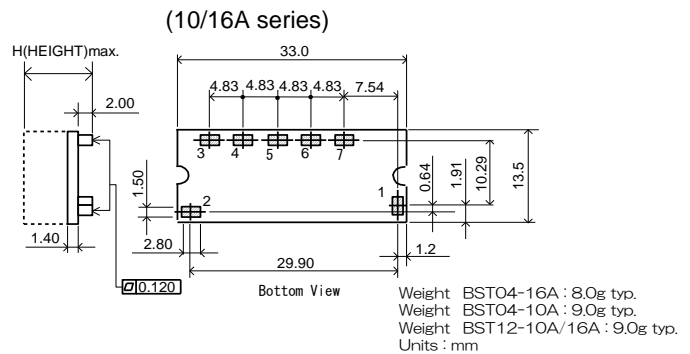
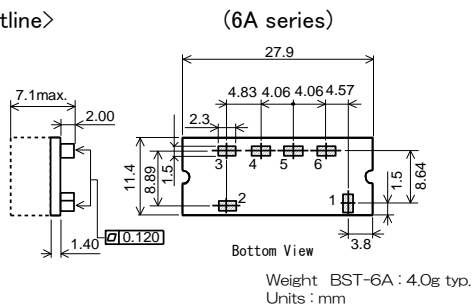
$$V_{in}(V) - V_o(V) \geq 0.5V$$

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>



- 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.

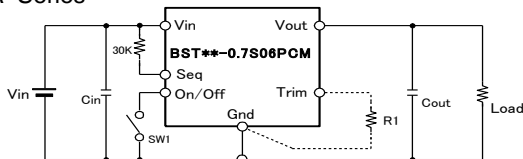
| Model | H(Height) |
|-------|-----------|
| BST04 | 8.3 |
| BST12 | 9.7 |

| 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

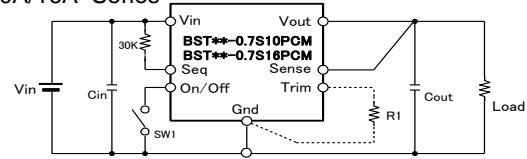


Cin: BST04=47μF Ceramic capacitor//2x100μF Tantalum capacitor
BST12=2x22μF Ceramic capacitor

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

R1: V_{out} 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 : V_{out} up Resistor

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

-  [View BST04-0.7S06PCM on WIN SOURCE](#)
-  [Bellnix Co., Ltd. Information](#)

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