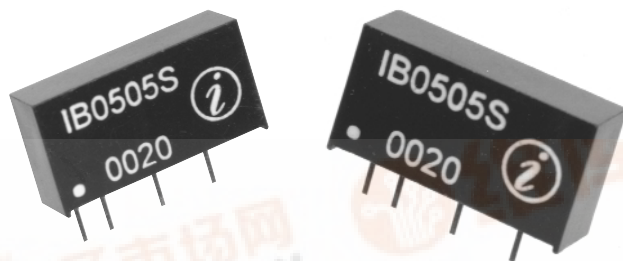


## DC/DC Converters

### 1 Watt IB Series

**XPiQ inc.**  
Intelligent Design Quality Product



- 0.18 in<sup>2</sup> Board Space
- 80% Efficiency
- 15 Watts per in<sup>3</sup>
- 5, 12, 24 and 48 VDC Inputs
- 1000 VDC Isolation
- Industry Standards Pinouts

### Specification

#### Input

- Input Voltage  $\pm 10\%$
- Input Reflected Noise 100 mV pk-pk max

#### Output

- Output Voltage Accuracy  $\pm 5\%$
- Output Ripple & Noise (20 MHz BW) 100 mV pk-pk max
- Line Regulation 1.2%/1% of  $V_{in}$
- Load Regulation  $\pm 10\%$  (20% to 100% Load)

#### General

- Efficiency
  - At full load 9 V, 12 V & 15V outputs 80% typical
  - At full load 3.3 V & 5 V outputs 70% typical
- Short Circuit Protection 1 second max

#### Environmental

- Input Output Isolation 1000 VDC min
- Temperature Coefficient 0.03%/°C max
- Operating Temperature Range -40 °C to +85 °C
- Storage Temperature Range -55 °C to +125 °C

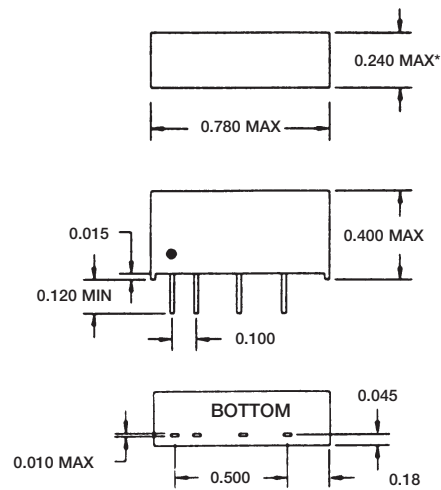
[www.XPiQ.com](http://www.XPiQ.com)



PH: 508 429.9883  
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Holliston, MA 01746 USA

| OUTPUT VOLTAGE & CURRENT RATINGS |                   |             |              |              |              | IB |
|----------------------------------|-------------------|-------------|--------------|--------------|--------------|----|
| Output Voltage(s)                | Output Current(s) | 5 VDC Input | 12 VDC Input | 24 VDC Input | 48 VDC Input |    |
| 3.3 VDC                          | 300 mA            | IB0503S     | IB1203S      | IB2403S      | IB4803S      |    |
| 5.0 VDC                          | 200 mA            | IB0505S     | IB1205S      | IB2405S      | IB4805S      |    |
| 9.0 VDC                          | 110 mA            | IB0509S     | IB1209S      | IB2409S      | IB4809S      |    |
| 12.0 VDC                         | 84 mA             | IB0512S     | IB1212S      | IB2412S      | IB4812S      |    |
| 15.0 VDC                         | 66 mA             | IB0515S     | IB1215S      | IB2415S      | IB4815S      |    |

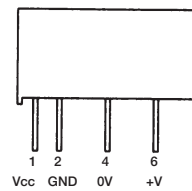
### Mechanical Details



\* 0.280 max for 48VDC input models

#### Pin Connections

#### SINGLE-IN-LINE PACKAGE



### Derating Curve

