

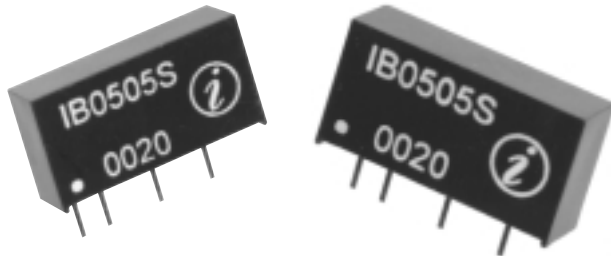
DC/DC Converters

XPiQ inc.

Intelligent Design Quality Product



**1 Watt
IB Series**



0.18 in² board space

80% Efficiency

15 Watts per in³

5, 12, 24 and 48 VDC Inputs

1000 VDC Isolation

Industry Standards Pinouts

Specification

Input

- Input Voltage • $\pm 10\%$
- Input Reflected Noise • 100mV p-p max.

Output

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

General

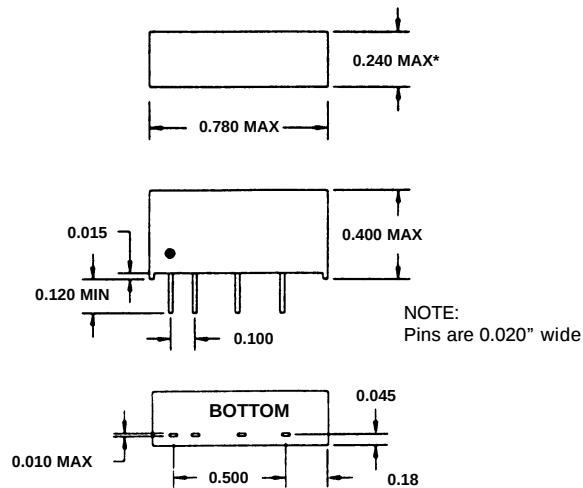
- Efficiency • At full load 9V, 12V and 15V outputs 80% typical
At full load 3.3V and 5V outputs 70% typical
- Short Circuit Protection • 1 second max

Environmental

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

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	300mA	IB0503S	IB1203S	IB2403S	IB4803S
5 VDC	200mA	IB0505S	IB1205S	IB2405S	IB4805S
9 VDC	110mA	IB0509S	IB1209S	IB2409S	IB4809S
12 VDC	84mA	IB0512S	IB1212S	IB2412S	IB4812S
15 VDC	66mA	IB0515S	IB1215S	IB2415S	IB4815S

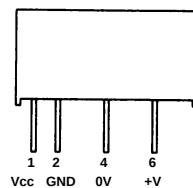
Mechanical Details



* 0.280 max for 48VDC input models

Pin Connections

SINGLE-IN-LINE PACKAGE



Derating Curve

