

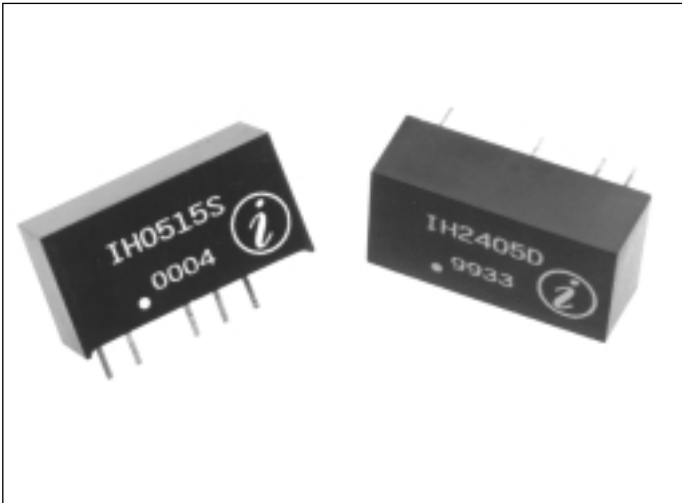
DC/DC Converters

XPiQ inc.

Intelligent Design Quality Product



**2 Watt
IH Series**



- 0.22 in² board space
-
- 75% Efficiency
-
- 5, 12, 24 and 48 VDC Inputs
-
- 1000/3000 VDC Isolation
-
- SIP and DIP Packages
-
- Low Cost

Specification

All specifications are typical at nominal line, full load & 25°C

Input

- Input Voltage* • $\pm 10\%$
- Input Reflected Noise (20MHZ) BW* • 100mV p-p max.

Output

- Output Voltage Accuracy* • $\pm 5\%$
- Output Ripple & Noise (20 MHz BW)* • 150mV p-p max
- Line Regulation* • 1.2%/1% of V_{in}
- Load Regulation (20% to 100% Load)* • $\pm 10\%$

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* • 3000 VDC
- 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

IH

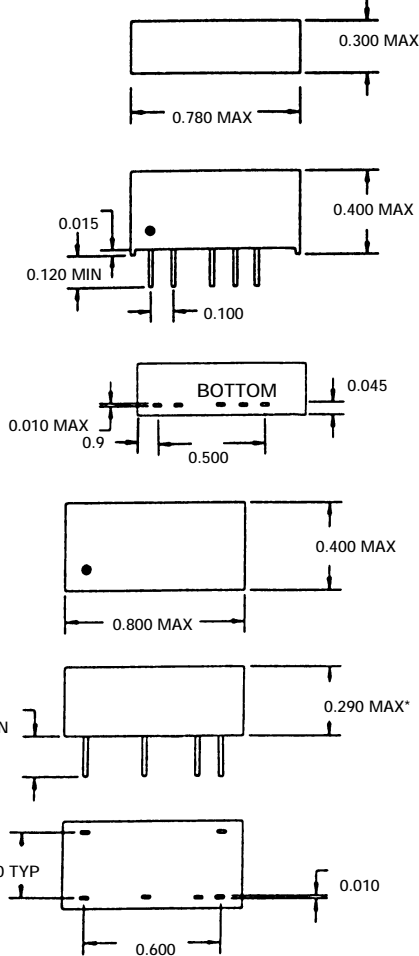
Output Voltage(s)	Output Current(s)	5 VDC Input	12 VDC Input	24 VDC Input	48 VDC Input
±3.3 VDC	±300mA	IH0503	IH1203	IH2403	IH4803
±5 VDC	±200mA	IH0505	IH1205	IH2405	IH4805
±9 VDC	±111mA	IH0509	IH1209	IH2409	IH4809
±12 VDC	±84mA	IH0512	IH1212	IH2412	IH4812
±15 VDC	±66mA	IH0515	IH1215	IH2415	IH4815

Notes

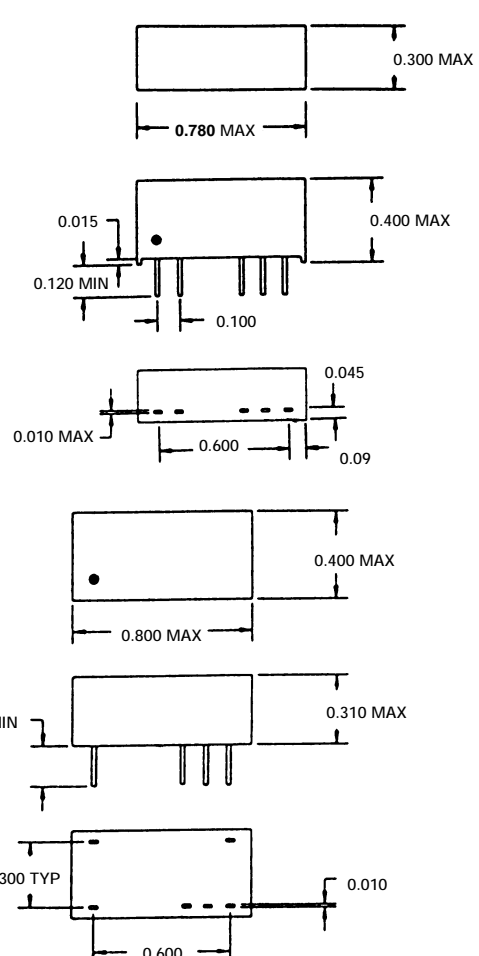
Add suffix "S" for single-in-line package, suffix "D" for dual-in-line package.
 Add suffix "H" for 3000 VDC isolation.

Mechanical Details

1000 VDC Isolation (Standard Pin Output)



3000 VDC Isolation (H Option)

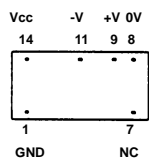


* 0.310 max for 48VDC input models

Pins .01 x .02 inches

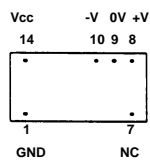
Pin Connections & Derating Curve

1000 VDC Isolation

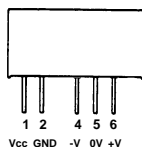


DUAL-IN-LINE PACKAGE (TOP VIEW)

3000 VDC Isolation



1000 VDC Isolation



SINGLE-IN-LINE PACKAGE (TOP VIEW)

3000 VDC Isolation

