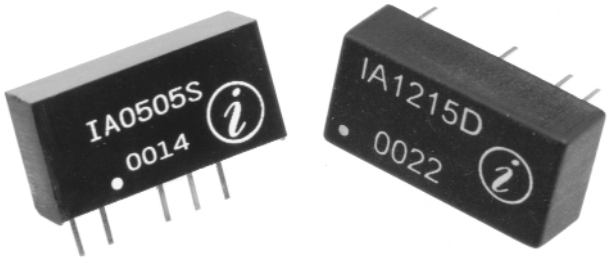
DC/DC Converters

1 Watt
IA Series

XPiQ inc.
Intelligent Design Quality Product



- 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	•	*±10%*
Input Reflected Noise (20 MHz) BW	•	*100mV pk-pk max*

Output

Output Voltage Accuracy	•	*±5%*
Output Ripple & Noise (20 MHz BW)	•	*75 mV pk-pk max*
Line Regulation	•	*1.2%/1% of Vin*
Load Regulation (20% to 100% Load)	•	*±10%*

General

Efficiency	•	*At full load 9V, 12V & 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*

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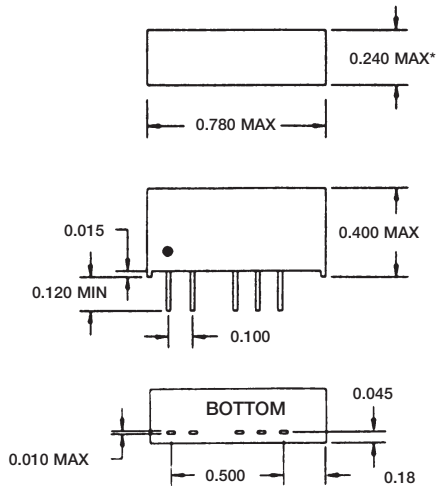
PH: 508 429.9883
FAX: 800 226.2100
Email: sales@xpiq.com
Holliston, MA 01746 USA

OUTPUT VOLTAGE & CURRENT RATINGS					IA
Output Voltage(s)	Output Current(s)	5 VDC Input	12 VDC Input	24 VDC Input	48 VDC Input
±3.3 VDC	±150 mA	IA0503	IA1203	IA2403	IA4803
±5.0 VDC	±100 mA	IA0505	IA1205	IA2405	IA4805
±9.0 VDC	±55 mA	IA0509	IA1209	IA2409	IA4809
±12.0 VDC	±42 mA	IA0512	IA1212	IA2412	IA4812
±15.0 VDC	±33 mA	IA0515	IA1215	IA2415	IA4815

Add suffix “S” for single-in-line package, suffix “D” for dual-in-line package.

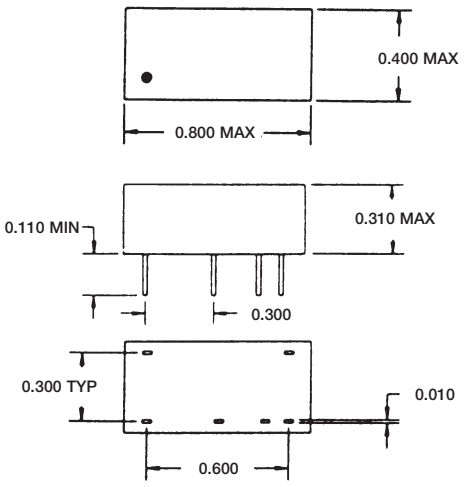
Mechanical Details

Single-In-Line Package



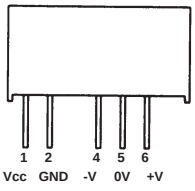
*0.280 for 48 Vin version

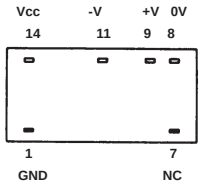
Dual-In-Line-Package



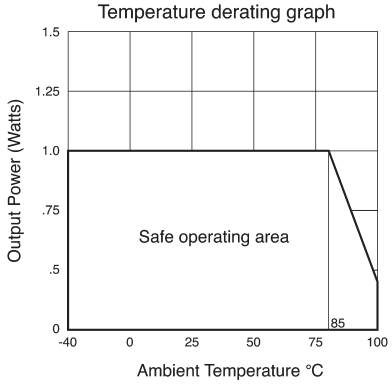
Pins .01 x .02 inches

Pin Connections





Derating Curve



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