

International Power Sources, Inc.

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DC/DC Converters



IA SERIES 1 WATT

SHOWN
ACTUAL
SIZE

FEATURES

- 0.18 in² board space
- 80% Efficiency
- 15 Watts per in³
- 5, 12, 24 and 48 VDC Inputs
- 1000 VDC Isolation
- Industry Standard Pinouts

MODELS CHART

OUTPUT VOLTAGE(S)	OUTPUT CURRENT(S)	PART NUMBERS			
		5VDC INPUT	12VDC INPUT	24VDC INPUT	48VDC INPUT
±3.3VDC	±150mA	IA0503	IA1203	IA2403	IA4803
±5VDC	±100mA	IA0505	IA1205	IA2405	IA4805
±9VDC	±55mA	IA0509	IA1209	IA2409	IA4809
±12VDC	±42mA	IA0512	IA1212	IA2412	IA4812
±15VDC	±33mA	IA0515	IA1215	IA2415	IA4815

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

ELECTRICAL SPECIFICATIONS

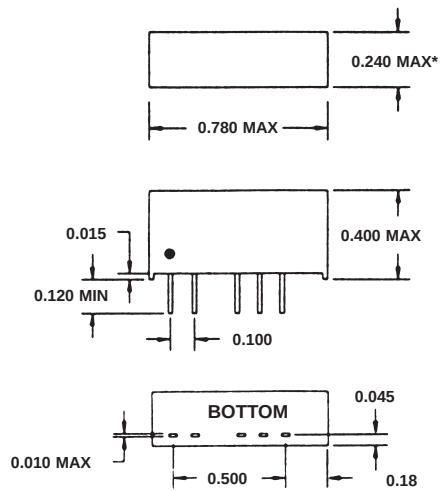
All specifications typical at nominal line, full load and 25°C

Input voltage range	±10%
Input reflected noise (20MHz BW)	100mV p-p max.
Output voltage accuracy	±5%
Line regulation	1.2%/1% of Vin
Load regulation (20% to 100% Load)	±10%
Output ripple and noise (20 MHz BW)	75mV p-p max.
Efficiency at full load 9V, 12V and 15V outputs	80% typical
Efficiency at full load 3.3V and 5V outputs	70% typical
Short circuit protection	1 second max.
Input output isolation	1000VDC min.
Temperature coefficient	0.03% per °C max
Operating temperature range	-40°C to 85°C
Storage temperature range	-55°C to 125°C

Specifications subject to change. Unit requires 10mm of air space.

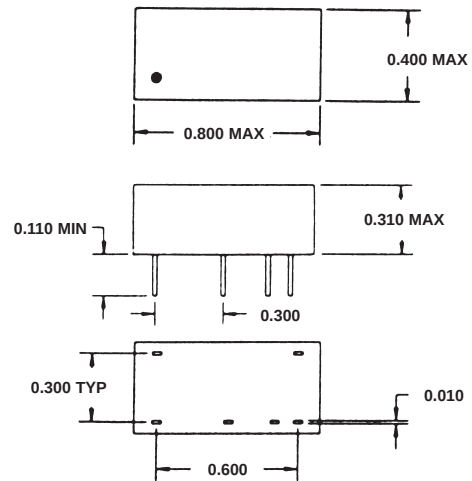
MECHANICAL SPECIFICATIONS

SINGLE-IN-LINE PACKAGE



* 0.280 max for 48VDC input models

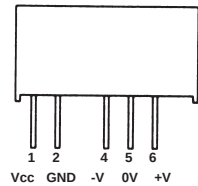
DUAL-IN-LINE PACKAGE



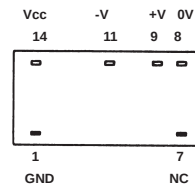
Pins .01 x .02 inches

PIN CONNECTIONS

SINGLE-IN-LINE PACKAGE



DUAL-IN-LINE PACKAGE (TOP VIEW)



DERATING CURVE

