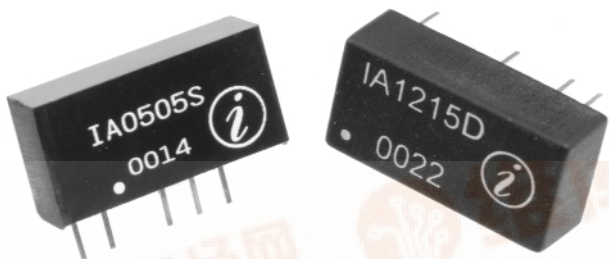


DC/DC Converters

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 • 100mV pk-pk max (20 MHz) BW

Output

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

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

www.XPiQ.com



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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

0.240 MAX*

0.780 MAX

0.015

0.120 MIN

0.400 MAX

0.100

0.045

0.010 MAX

0.500

0.18

BOTTOM

*0.280 for 48 Vin version

Dual-In-Line-Package

0.400 MAX

0.800 MAX

0.110 MIN

0.310 MAX

0.300

0.300 TYP

0.600

0.010

Pins .01 x .02 inches

Pin Connections

Vcc 14 -V 11 +V 9 0V 8

1 7

GND NC

1 2 4 5 6

Vcc GND -V 0V +V

Derating Curve

Temperature derating graph

Output Power (Watts)

Ambient Temperature °C

Safe operating area

85

