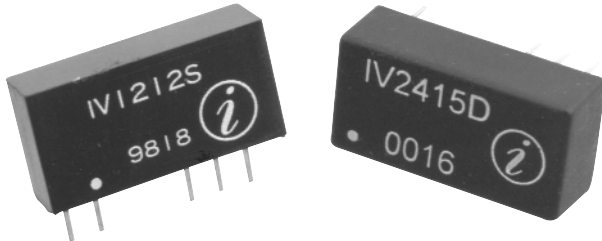


# DC/DC Converters

## 1 Watt IV Series

**XPiQ inc.**  
Intelligent Design Quality Product



- 0.18 in<sup>2</sup> Board Space
- 80% Efficiency
- 15 Watts per in<sup>3</sup>
- 5, 12, 24 and 48 VDC Inputs
- 3000 VDC Isolation
- Industry Standards Pinouts

## Specification

### Input

- Input Voltage •  $\pm 10\%$
- Input Reflected Noise • 100 mV pk-pk max (20 MHz BW)

### Output

- Output Voltage Accuracy •  $\pm 5\%$
- Output Ripple & Noise • 100 mV pk-pk 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 9 V, 12 V & 15 V outputs  
80% typical  
At full load 3.3 V & 5 V outputs  
70% typical
- Short Circuit Protection • 1 second max

### Environmental

- Input Output Isolation • 3000 VDC
- Temperature Coefficient • 0.03%/°C max
- Operating Temperature Range • -40 °C to +85 °C
- Storage Temperature Range • -55 °C to +125 °C

## OUTPUT VOLTAGE & CURRENT RATINGS

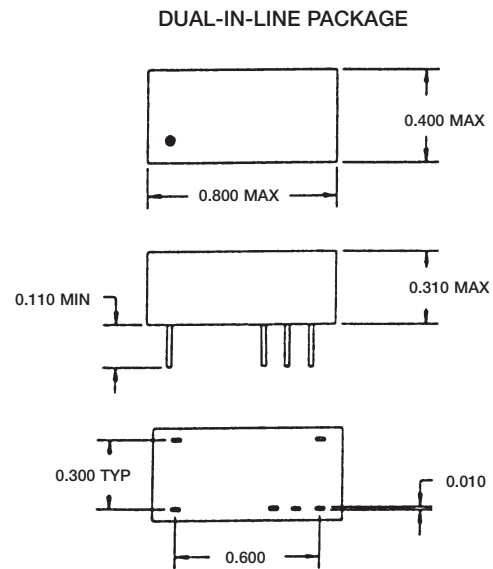
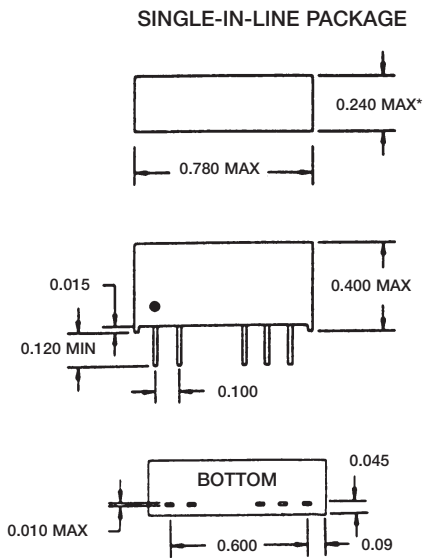
IV

Output Voltage	Output Current	5 VDC Input	12 VDC Input	24VDC Input	48 VDC Input
3.3 VDC	300 mA	IV0503XA	IV1203XA	IV2403XA	IV4803XA
5.0 VDC	200 mA	IV0505XA	IV1205XA	IV2405XA	IV4805XA
9.0 VDC	112 mA	IV0509XA	IV1209XA	IV2409XA	IV4809XA
12.0 VDC	84 mA	IV0512XA	IV1212XA	IV2412XA	IV4812XA
15.0 VDC	66 mA	IV0515XA	IV1215XA	IV2415XA	IV4815XA
±3.3 VDC	±150 mA	IV0503X	IV1203X	IV2403X	IV4803X
±5.0 VDC	±100 mA	IV0505X	IV1205X	IV2405X	IV4805X
±9.0 VDC	±56 mA	IV0509X	IV1209X	IV2409X	IV4809X
±12.0 VDC	±42 mA	IV0512X	IV1212X	IV2412X	IV4812X
±15.0 VDC	±33 mA	IV0515X	IV1215X	IV2415X	IV4815X

### Notes

Replace "X" with "S" for Single-In-Line Package, suffix "D" for Dual-In-Line Package.

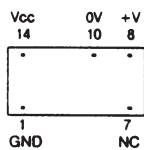
## Mechanical Details



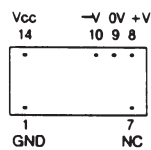
\* 0.280 max for 48VDC input models

Pins .01 x .02 inches

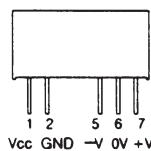
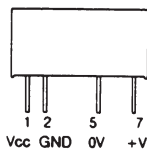
### Single Output Models



### Dual Output Models



### DUAL-IN-LINE PACKAGE (TOP VIEW)



### SINGLE-IN-LINE PACKAGE

## Derating Curve

