

# 2 Watt IJ Series



- Single Output
- DIP 16 Package
- Industry Standard Pinout
- 6000 VDC Isolation
- -40 °C to +85 °C Operation
- MTBF >3.5 Mhrs
- 3 Year Warranty

## Specification

### Input

- Input Voltage Range • Nominal  $\pm 10\%$   
 Input Reverse Voltage Protection • None

### Output

- Output Voltage • See table  
 Minimum Load • 10%  
 Line Regulation • 1.2%/1%  $\Delta V_{in}$   
 Load Regulation • 7.5% max for a 10-100% load change  
 Setpoint Accuracy • 100-110% of nominal at 10% load  
 Ripple & Noise • 200 mV pk-pk 20 MHz bandwidth  
 Temperature Coefficient • 0.03%/°C  
 Short Circuit Protection • Continuous

### General

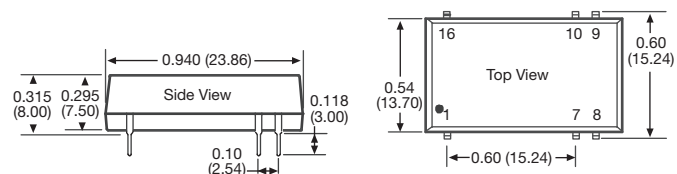
- Efficiency • See table  
 Isolation Voltage • 6000 VDC, 1 minute  
 Isolation Resistance •  $10^9 \Omega$   
 Isolation Capacitance • 10 pF typical  
 Switching Frequency • 50 kHz typical at nominal input, full load  
 MTBF • >3.5 Mhrs to MIL-HDBK-217F at 25 °C, GB

### Environmental

- Operating Temperature • -40 °C to +85 °C  
 Storage Temperature • -55 °C to +125 °C  
 Case Temperature • 105 °C max  
 Cooling • Convection-cooled  
 Lead Temperature • 260 °C, 0.06 in (1.5 mm) from case, 10 s

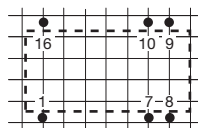
Input Voltage	Output Voltage	Output Current	Efficiency (typ)	Model Number
5 VDC	5.0 V	400 mA	76%	IJ0505DA
	12.0 V	167 mA	79%	IJ0512DA
12 VDC	5.0 V	400 mA	76%	IJ1205DA
	12.0 V	167 mA	80%	IJ1212DA
	15.0 V	133 mA	79%	IJ1215DA
24 VDC	12.0 V	167 mA	80%	IJ2412DA

## Mechanical Details



### Recommended footprint

Top view grid: 0.1 x 0.1 in (2.54 x 2.54 mm)  
 Diameter: 0.39" (1.0 mm)



Pin	Function
1	-Vin
7	NC
8	NC
9	+Vo
10	-Vo
16	+Vin

### Notes

Dimensions in inches (mm)  
 Tolerance:  $\pm 0.010$  ( $\pm 0.25$ )  
 Weight: 0.008 lbs (3.8 g)

Pin diameter: 0.024 x 0.010 (0.60 x 0.25)  
 Pin tolerance:  $\pm 0.004$  ( $\pm 0.10$  mm)