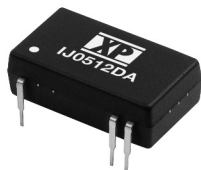


# 2 Watt IJ Series



- 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 ±10%
- Input Reverse Voltage Protection • None

### Output

- Output Voltage • See table
- Minimum Load • 10%
- Line Regulation • 1.2%/1% Δ Vin
- 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

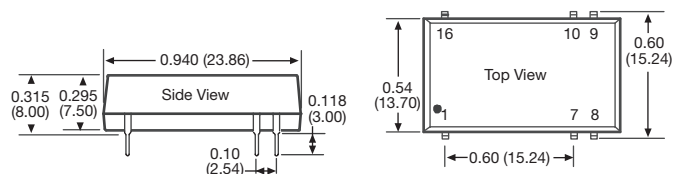
- Efficiency • See table
- Isolation Voltage • 6000 VDC, 1 minute
- Isolation Resistance • 10<sup>9</sup> Ω
- Isolation Capacitance • 10 pF typical
- Switching Frequency • 50 kHz typical at nominal input, full load
- MTBF • >3.5 MHrs to MIL-HDBK-217F at 25 °C, GB

### Environmental

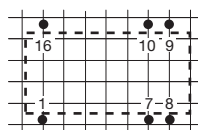
- Operating Temperature • -40 °C to +85 °C
- Storage Temperature • -55 °C to +125 °C
- Case Temperature • 105 °C max
- Cooling • Convection-cooled
- Lead Temperature • 260 °C, 0.06 in (1.5 mm) from case, 10 s

| 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: ±0.010 (±0.25)  
 Weight: 0.008 lbs (3.8 g)

Pin diameter: 0.024 x 0.010 (0.60 x 0.25)  
 Pin tolerance: ±0.004 (±0.10 mm)