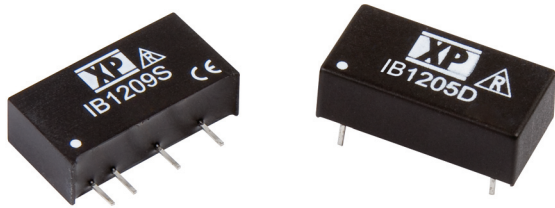


## IB Series



- Single Ungregulated Output
- SIP or DIP Package
- Industry Standard Pinout
- 1.0kV DC Isolation
- -40 °C to +85 °C Operation
- MTBF >1.1 MHours
- 3 Year Warranty

### Specification

#### Input

- Input Voltage Range • Nominal  $\pm 10\%$
- Input Reflected Ripple Current • 20mA pk-pk through 12 $\mu$ H inductor, 5Hz to 20MHz
- Input Reverse Voltage Protection • None

#### Output

- Output Voltage • See table
- Minimum Load • None<sup>(2)</sup>
- Line Regulation • 1.2%/1%  $\Delta V_{in}$
- Load Regulation • 10% for a 20-100% load change<sup>(2)</sup> (3.3V models  $\pm 20\%$ )
- Setpoint Accuracy •  $\pm 3\%$
- Ripple & Noise • 75mV pk-pk max, 20MHz bandwidth
- Temperature Coefficient • 0.02%/°C
- Maximum Capacitive Load • 220 $\mu$ F

#### General

- Efficiency • See table
- Isolation Voltage • 1000VDC minimum
- Isolation Resistance • 10<sup>9</sup>  $\Omega$
- Isolation Capacitance • 60pF typical
- Switching Frequency • 40-160 KHz variable
- MTBF • >1.1 MHours to MIL-HDBK-217F at 25 °C, GB

#### Environmental

- Operating Temperature • -40°C to +85°C
- Storage Temperature • -40°C to +125°C
- Case Temperature • 100°C max
- Cooling • Convection-cooled

#### Safety

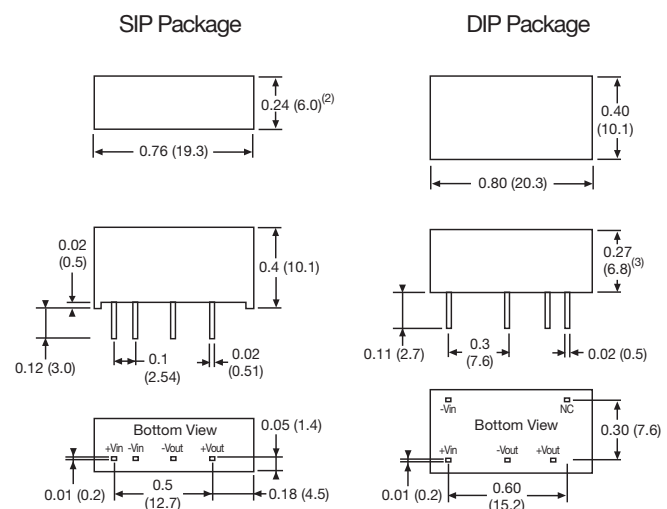
- Safety Agency • UL60950-1 & CAN/CSA C22.2 No. 60950-1; UL62368-1, CE & UKCA meets all applicable directives & legislation.

#### Notes

1. Replace 'S' in model number with 'D' for DIP package.
2. Operation at no load will not damage unit but it may not meet all specifications.
3. All dimensions in inches (mm).
4. Pin pitch tolerance:  $\pm 0.014$  ( $\pm 0.35$ )
5. Case tolerance:  $\pm 0.02$  ( $\pm 0.5$ )
6. Weight: SIP 0.006 lbs (2.6 g), DIP 0.005 lbs (2.3 g)

| Input Voltage <sup>(4)</sup> | Output Voltage | Output Current | Efficiency | Model Number <sup>(1)</sup> |
|------------------------------|----------------|----------------|------------|-----------------------------|
| 5 VDC                        | 3.3V           | 303mA          | 75%        | IB0503S                     |
|                              | 5.0V           | 200mA          | 78%        | IB0505S                     |
|                              | 9.0V           | 111mA          | 75%        | IB0509S                     |
|                              | 12.0V          | 84mA           | 76%        | IB0512S                     |
|                              | 15.0V          | 66mA           | 76%        | IB0515S                     |
|                              | 24.0V          | 42mA           | 72%        | IB0524S                     |
| 12VDC                        | 3.3V           | 303mA          | 74%        | IB1203S                     |
|                              | 5.0V           | 200mA          | 74%        | IB1205S                     |
|                              | 9.0V           | 111mA          | 75%        | IB1209S                     |
|                              | 12.0V          | 84mA           | 77%        | IB1212S                     |
|                              | 15.0V          | 66mA           | 78%        | IB1215S                     |
|                              | 24.0V          | 42mA           | 75%        | IB1224S                     |
| 24VDC                        | 3.3V           | 303mA          | 75%        | IB2403S                     |
|                              | 5.0V           | 200mA          | 77%        | IB2405S                     |
|                              | 9.0V           | 111mA          | 75%        | IB2409S                     |
|                              | 12.0V          | 84mA           | 78%        | IB2412S                     |
|                              | 15.0V          | 66mA           | 78%        | IB2415S                     |
|                              | 24.0V          | 42mA           | 78%        | IB2424S                     |

### Mechanical Details



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