

IF Series



- Regulated Single Output
- Industry Standard Pinout
- SIP or DIP Package
- Low Ripple & Noise
- 1000 VDC Isolation
- Optional 3000 VDC Isolation
- MTBF >4 Mhrs

Specification

Input

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

Output

- Output Voltage • See table
- Minimum Load • None⁽⁴⁾
- Line Regulation • $\pm 0.5\%$ max
- Load Regulation • $\pm 0.5\%$ max ($\pm 1.0\%$ for 3.3 V output)
- Setpoint Accuracy • $\pm 2\%$ max
- Ripple & Noise • 50 mV pk-pk max, 20 MHz BW
- Temperature Coefficient • 0.02%/°C
- Short Circuit Protection • 1 sec
- Maximum Capacitive Load • 220 μ F

General

- Efficiency • See table
- Isolation Voltage • 1000 VDC standard, 3000 VDC option - see note 2
- Resistance • 1000 M Ω min
- Isolation Capacitance • 60 pF typical
- Switching Frequency • 50 kHz typical
- MTBF • >4 Mhrs

Environmental

- Operating Temperature • -40 °C to +85 °C (no derating)
- Storage Temperature • -40 °C to +125 °C
- Case Temperature • +100 °C max
- Cooling • Convection-cooled

Notes

1. For DIP package, replace suffix 'S' with suffix 'D'.
2. For 3000 VDC isolation, add suffix '-H'.
3. All dimensions in inches (mm).
4. Operation at no load will not damage unit but it may not meet all specifications.

| Input Voltage | Output Voltage | Output Current | Efficiency | Model Number ^(1,2) |
|---------------|----------------|----------------|------------|-------------------------------|
| 5 V | 3.3 V | 333 mA | 57% | IF0503S |
| | 5.0 V | 200 mA | 65% | IF0505S |
| | 9.0 V | 111 mA | 65% | IF0509S |
| | 12.0 V | 84 mA | 68% | IF0512S |
| | 15.0 V | 67 mA | 68% | IF0515S |
| 12 V | 3.3 V | 333 mA | 57% | IF1203S |
| | 5.0 V | 200 mA | 63% | IF1205S |
| | 9.0 V | 111 mA | 66% | IF1209S |
| | 12.0 V | 84 mA | 68% | IF1212S |
| | 15.0 V | 67 mA | 70% | IF1215S |
| 24 V | 3.3 V | 333 mA | 60% | IF2403S |
| | 5.0 V | 200 mA | 65% | IF2405S |
| | 9.0 V | 111 mA | 68% | IF2409S |
| | 12.0 V | 84 mA | 68% | IF2412S |
| | 15.0 V | 67 mA | 68% | IF2415S |

Mechanical Details

