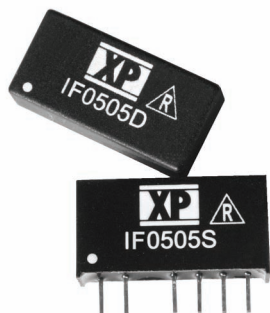


1 Watt IF Series



- Regulated Single Output
- SIP or DIP Package
- Low Ripple & Noise
- 1000 VDC Isolation
- Optional 3000 VDC Isolation
- MTBF 4.2 Mhrs
- 3 Year Warranty

Specification

Input

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

Output

- Output Voltage** • See table
- Minimum Load** • None⁽³⁾
- Line Regulation** • $\pm 0.5\%$ max
- Load Regulation** • $\pm 0.5\%$ max for a 10-100% load change⁽³⁾ ($\pm 1.0\%$ for 3.3 V output)
- Setpoint Accuracy** • $\pm 2\%$ max
- Ripple & Noise** • 50 mV pk-pk max, 20 MHz bandwidth
- Temperature Coefficient** • 0.02%/°C
- Maximum Capacitive Load** • 220 μF

General

- Efficiency** • See table
- Isolation Voltage** • 1000 VDC standard, 3000 VDC option⁽²⁾
- Isolation Resistance** • 1000 M Ω min
- Isolation Capacitance** • 60 pF typical
- Switching Frequency** • 36-150 kHz variable
- MTBF** • 4.2 Mhrs to MIL-HDBK-217F at 25 °C, GB

Environmental

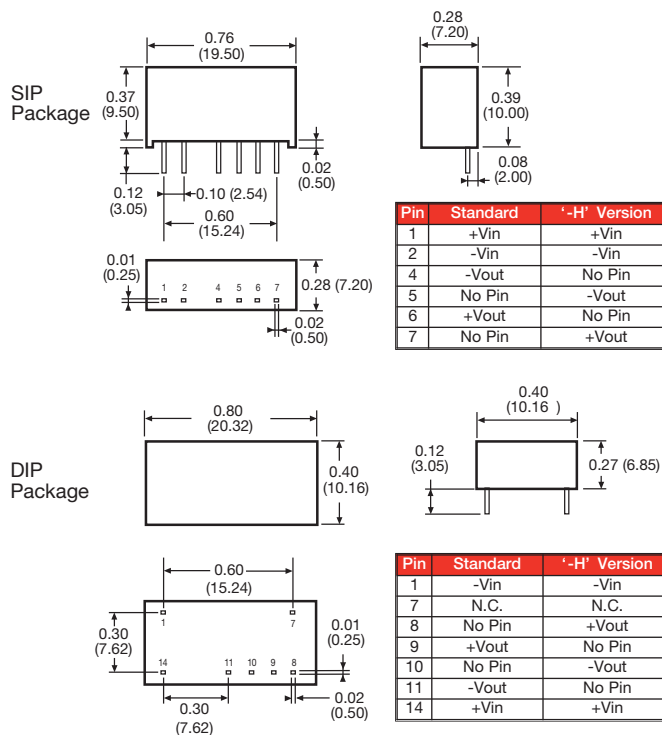
- Operating Temperature** • -40 °C to +85 °C (no derating)
- Storage Temperature** • -40 °C to +125 °C
- Case Temperature** • +100 °C max
- Cooling** • Convection-cooled

Notes

1. For DIP package, replace suffix 'S' with suffix 'D'.
2. For 3000 VDC isolation, add suffix '-H'.
3. Operation at no load will not damage unit but it may not meet all specifications.
4. All dimensions in inches (mm).
5. Pin pitch tolerance: ± 0.014 (± 0.35)
6. Case tolerance: ± 0.02 (± 0.5)
7. Weight: 0.005 lbs (2.4 g)

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	66%	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



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[IF2403S](#) [IF2412S](#) [IF0512S](#)