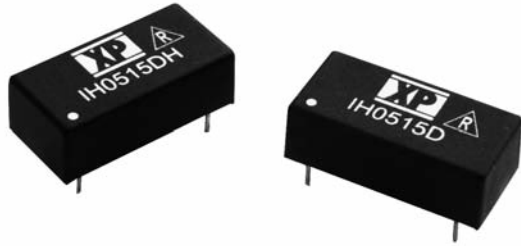


IH SERIES

DC/DC Dual Output: 2 Watts



Features

- Dual Output
- SIP or DIP Package
- 1000 VDC Isolation
- Optional 3000-6000 VDC Isolation
- MTBF >1.1 MHrs
- -40 °C to +85 °C Operation
- 10% Input range

Specification

Input

- Input Voltage Range • Nominal $\pm 10\%$
- Input Reflected Ripple Current • 20 mA pk-pk (5Hz to 20 MHz with 12 μH)
- Input Reverse Voltage Protection • None
- Input Filter • Capacitor

Output

- Output Voltage • See table
- Minimum Load • None⁽⁴⁾
- Line Regulation • 1.2%/1% ΔV_{in}
- Load Regulation • $\pm 10\%$ 20-100% load change (3.3 V models $\pm 20\%$)
- Setpoint Accuracy • $\pm 3\%$
- Ripple & Noise • 75 mV pk-pk max, 20 MHz bandwidth
- Temperature Coefficient • 0.02%/°C
- Maximum Capacitive Load • $\pm 220 \mu\text{F}$
- Cross Regulation • 3.3 V and 5 V: $\pm 8\%$, all others: $\pm 5\%$ ⁽⁵⁾

General

- Efficiency • See table
- Isolation Voltage • 1000VDC (for higher isolation options - see note 2)
- Isolation Resistance • $10^9 \Omega$
- Isolation Capacitance • 60 pF typical
- MTBF • >1.1 MHrs 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

Notes

1. For DIP package, replace 'S' with 'D' in model number.
2. Add suffix '-H' to model number for 3000 VDC isolation. For higher VDC isolation, add suffix '-Hx' to model number where x=4 for 4000 VDC isolation, x=5 for 5200 VDC isolation and x=6 for 6000 VDC isolation.
3. Outputs will power-trade.
4. Operation at no load will not damage unit but it may not meet all specifications.
5. When one output is set to 100% load and the other varies between 25%-100% load.
6. All dimensions in inches (mm).
7. Pin pitch tolerance: ± 0.014 (± 0.35)
8. Case tolerance: ± 0.02 (± 0.5)
9. Weight: SIP 0.004 lbs (2.2 g), DIP 0.005 lbs (2.4 g)

Input Voltage	No Load Input Current	Output Voltage	Output Current ⁽³⁾	Efficiency	Model Number ^(1,2)
5 VDC	30 mA	± 3.3 V	± 200 mA	65%	IH0503S [^]
	30 mA	± 5.0 V	± 200 mA	72%	IH0505S [^]
	30 mA	± 9.0 V	± 111 mA	77%	IH0509S [^]
	30 mA	± 12.0 V	± 84 mA	78%	IH0512S [^]
	30 mA	± 15.0 V	± 66 mA	80%	IH0515S [^]
12 VDC	20 mA	± 3.3 V	± 200 mA	67%	IH1203S [^]
	20 mA	± 5.0 V	± 200 mA	75%	IH1205S [^]
	20 mA	± 9.0 V	± 111 mA	77%	IH1209S [^]
	20 mA	± 12.0 V	± 84 mA	82%	IH1212S [^]
	20 mA	± 15.0 V	± 66 mA	82%	IH1215S [^]
24 VDC	10 mA	± 3.3 V	± 200 mA	68%	IH2403S [^]
	10 mA	± 5.0 V	± 200 mA	75%	IH2405S [^]
	10 mA	± 9.0 V	± 111 mA	80%	IH2409S [^]
	10 mA	± 12.0 V	± 84 mA	82%	IH2412S [^]
	10 mA	± 15.0 V	± 66 mA	82%	IH2415S [^]
48 VDC	6 mA	± 3.3 V	± 200 mA	60%	IH4803S
	6 mA	± 5.0 V	± 200 mA	73%	IH4805S
	6 mA	± 9.0 V	± 111 mA	77%	IH4809S
	6 mA	± 12.0 V	± 84 mA	80%	IH4812S
	6 mA	± 15.0 V	± 66 mA	80%	IH4815S
					IH4824S

Mechanical Details

