

2 Watt IG Series



- Single & Dual Output
- SIP 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 $\pm 10\%$
 Input Reverse Voltage Protection • None

Output

- Output Voltage • See table
 Minimum Load • 10%
 Line Regulation • 1.2%/1% ΔV_{in}
 Load Regulation • $\pm 15\%$ for a 10-100% load change
 Setpoint Accuracy • 100-110% of nominal at 10% load
 Ripple & Noise • 250 mV pk-pk 20 MHz bandwidth
 Temperature Coefficient • 0.03%/°C
 Short Circuit Protection • Continuous

General

- Efficiency • See table
 Isolation Voltage • 6000 VDC (tested for 1 min)
 Isolation Resistance • $10^9 \Omega$
 Isolation Capacitance • 10 pF max
 Switching Frequency • 5 V input: 45 kHz, 12 V/24 V input: 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

Notes

Dimensions in inches (mm)
 Weight: 0.009 lbs (4.3 g)
 Tolerance: ± 0.010 (± 0.25)

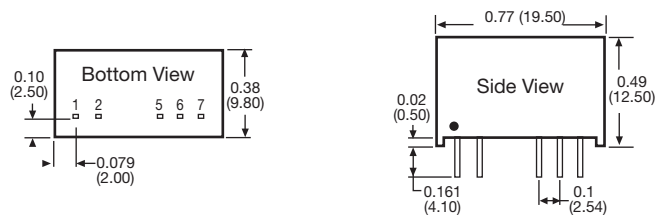
Pin diameter: 0.020 x 0.012 (0.50 x 0.30)
 Pin tolerance: ± 0.004 (± 0.10 mm)

Input Voltage	Output Voltage	Output Current	Efficiency (typ)	Model Number ⁽¹⁾
5 VDC	5.0 V	400 mA	74%	IG0505SA
	9.0 V	222 mA	77%	IG0509SA
	12.0 V	167 mA	77%	IG0512SA
	15.0 V	133 mA	77%	IG0515SA
12 VDC	5.0 V	400 mA	75%	IG1205SA
	9.0 V	222 mA	78%	IG1209SA
	12.0 V	167 mA	80%	IG1212SA
	15.0 V	133 mA	78%	IG1215SA
24 VDC	5.0 V	400 mA	75%	IG2405SA
	9.0 V	222 mA	77%	IG2409SA
	12.0 V	167 mA	80%	IG2412SA
	15.0 V	133 mA	79%	IG2415SA

Notes

1. For dual output versions, delete 'A' from part number and split current equally between outputs.

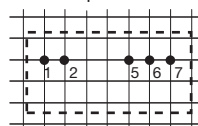
Mechanical Details



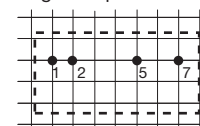
Recommended footprint

Top view grid: 0.1 x 0.1 in (2.54 x 2.54 mm)
 Diameter: 0.39" (1.0 mm)

Dual Output



Single Output



Pin	Single	Dual
1	+Vin	+Vin
2	-Vin	-Vin
5	0 V	-Vo
6	No Pin	0 V
7	+Vo	+Vo