1 Watt
ID Series



- Single & Dual Output
- SIP Package
- Industry Standard Pinout
- 6000 VDC Isolation
- –40 °C to +85 °C Operation
- MTBF >3 MHrs
- 3 Year Warranty

Specification

Input

Input Voltage Range	• Nominal ±10%
Input Reverse Voltage Protection	• None

Output

Output Voltage	• See table
Minimum Load	• 10%
Line Regulation	• 1.2%/1% Δ Vin
Load Regulation	• 7.5% 10-100% load change
Setpoint Accuracy	• 100-110% of nominal at 10% load
Ripple & Noise	• 200 mV pk-pk 20 MHz bandwidth
Temperature Coefficient	• 0.03%/°C
Short Circuit Protection	• 5 V input: 1 s max, 12 V input: continuous

General

Efficiency	• See table
Isolation Voltage	• 6000 VDC, 1 mA max
Isolation Resistance	• 10^9 Ω
Isolation Capacitance	• 10 pF typical
Switching Frequency	• 5 V input: 250 kHz, 12 V input: 50 kHz typical at nominal input and full load
MTBF	• >3 MHrs to MIL-HDBK-217F at 25 şC, GB

Environmental

Operating Temperature	• -40 °C to +85 °C
Storage Temperature	• -55 °C to +125 °C
Case Temperature	• 105 °C max
Cooling	• Convection-cooled

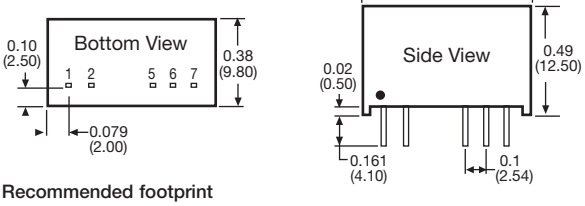
Input Voltage	Output Voltage	Output Current	Efficiency (typ)	Model Number[1]
5 VDC	5.0 V	200 mA	70%	ID0505SA
	9.0 V	111 mA	72%	ID0509SA
	12.0 V	84 mA	73%	ID0512SA
	15.0 V	67 mA	74%	ID0515SA
12 VDC	5.0 V	200 mA	70%	ID1205SA
	9.0 V	111 mA	71%	ID1209SA
	12.0 V	84 mA	72%	ID1212SA
	15.0 V	67 mA	75%	ID1215SA

Notes

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

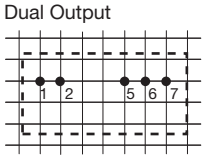
Mechanical Details

Weight: 0.009 lbs (4.2 g)

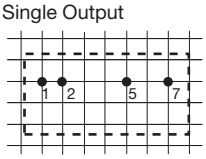


Recommended footprint
Top view grid: 0.1 x 0.1 in (2.54 x 2.54 mm)
Diameter: 0.39" (1.0 mm)

Dual Output



Single Output



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

Notes

Dimensions in inches (mm)
Tolerance: ±0.010 (±0.25)

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