

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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- Single & Dual Output
- SIP Package
- 1000 VDC Isolation
- Optional 3000 VDC Isolation
- -40 °C to +85 °C Operation
- Semi-regulated
- 3 Year Warranty

No Load

Specification

Input

Input Voltage Range

Input Reflected Ripple Current

- Nominal ±10%
- 20 mA pk-pk, 5 Hz to 20 MHz

Input Reverse Voltage • None Protection

Output

Output Voltage Minimum Load

 See table • None(1)

Line Regulation

• 1.2%/1% ∆ Vin

Load Regulation

See table

Setpoint Accuracy

• +2%, -4%

Ripple & Noise

• 50 mV pk-pk max, 20 MHz bandwidth(2)

Temperature Coefficient • 0.02%/°C Maximum Capacitive

Load

· See table

General

Efficiency

· See table

Isolation Voltage

• 1000 VDC minimum, 3000 VDC option(3)

Isolation Resistance

10°Ω

Isolation Capacitance

• 60 pF typical

Switching Frequency

• Variable, 60 kHz - 85 kHz

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

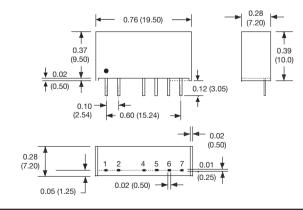
Cooling

· Convection-cooled

Voltage	Current	Voltage	Current	Load	⊑пісіепсу	Reg.	Number
5 VDC	80 mA	5.0 V	600 mA	220 µF	79%	8.0%	IR0505SA
	70 mA	9.0 V	333 mA	220 µF	84%	7.0%	IR0509SA
	70 mA	12.0 V	250 mA	100 μF	84%	6.0%	IR0512SA
	80 mA	15.0 V	200 mA	100 μF	84%	6.0%	IR0515SA
	80 mA	±5.0 V	±300 mA	±100 μF	82%	7.0%	IR0505S
	70 mA	±9.0 V	±167 mA	±100 μF	85%	6.0%	IR0509S
	70 mA	±12.0 V	±125 mA	±47 µF	85%	6.0%	IR0512S
	70 mA	±15.0 V	±100 mA	±47 μF	86%	5.0%	IR0515S
12 VDC	25 mA	5.0 V	600 mA	220 µF	84%	6.0%	IR1205SA
	25 mA	9.0 V	333 mA	220 µF	87%	4.0%	IR1209SA
	25 mA	12.0 V	250 mA	100 μF	88%	4.0%	IR1212SA
	20 mA	15.0 V	200 mA	100 μF	90%	3.0%	IR1215SA
	25 mA	±5.0 V	±300 mA	±100 μF	85%	5.0%	IR1205S
	25 mA	±9.0 V	±167 mA	±100 μF	88%	4.0%	IR1209S
	25 mA	±12.0 V	±125 mA	±47 µF	89%	3.0%	IR1212S
	20 mA	±15.0 V	±100 mA	±47 µF	90%	3.0%	IR1215S

Max

Mechanical Details



Notes

- 1. Operation at no load will not damage unit but it may not meet all specifications.
- 2. Output capacitor of 1 µF required to meet quoted ripple and noise.
- 3. For optional 3 kV isolation, add suffix '-H' to the model number.
- 4. All dimensions in inches (mm)
- 5. Pin pitch tolerance: ±0.014 (±0.35)
- 6. Case tolerance: ±0.02 (±0.5)
- 7. Weight: 0.006 lbs (2.8 g)

Pin Connections									
Pin	Single	Dual	Single-H	Dual-H					
1	+Vin	+Vin	+Vin	+Vin					
2	-Vin	-Vin	-Vin	-Vin					
4	-Vout	-Vout	N.P	N.P					
5	N.P	Common	-Vout	-Vout					
6	+Vout	+Vout	N.P	Common					
7	N.P	N.P	+Vout	+Vout					

