



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!



Contact us

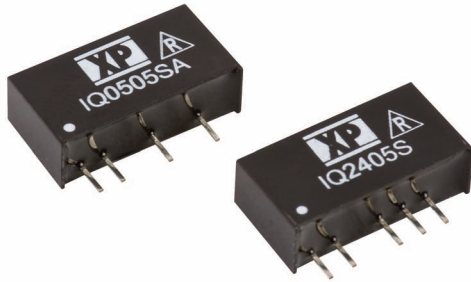
Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



1 Watt IQ Series



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

Specification

Input

- Input Voltage Range** • Nominal $\pm 10\%$
- Input Reflected Ripple Current** • 5 & 12 V: 20 mA, 15 V: 30 mA
24 V: 40 mA, 48 V: 50 mA pk-pk, 5 Hz to 20 MHz
- Input Reverse Voltage Protection** • None

Output

- Output Voltage** • See table
- Minimum Load** • None⁽¹⁾
- Line Regulation** • 1.2%/1% ΔV_{in}
- Load Regulation** • See table (10-100%)
- Setpoint Accuracy** • $\pm 3\%$
- Ripple & Noise** • 50 mV pk-pk max, 20 MHz bandwidth
- Temperature Coefficient** • 0.02%/°C
- Maximum Capacitive Load** • See table

General

- Efficiency** • See table
- Isolation Voltage** • 1000 VDC minimum, 3000 VDC option⁽²⁾
- Isolation Resistance** • $10^9 \Omega$
- Isolation Capacitance** • 60 pF typical
- Switching Frequency** • Variable, 55 kHz - 85 kHz
- MTBF** • >1.1 Mhrs to MIL-HDBK-217F at 25 °C, GB

Environmental

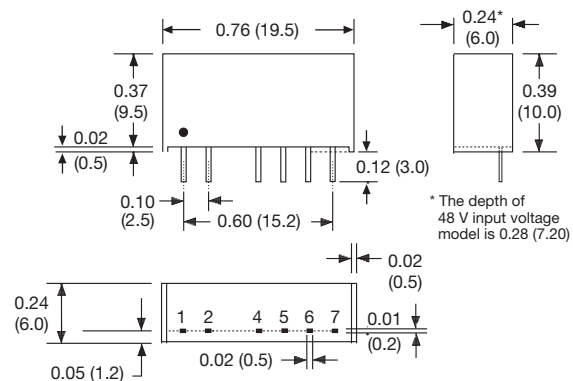
- Operating Temperature** • -40 °C to +85 °C
- Storage Temperature** • -40 °C to +125 °C
- Case Temperature** • 100 °C max
- Cooling** • Convection-cooled

Notes

1. Operation at no load will not damage unit but it may not meet all specifications.
2. For optional 3000 VDC isolation, add suffix '-H' to the model number.
3. For dual output delete suffix 'A' and split output current equally between rails.
4. All dimensions in inches (mm).
5. Pin pitch tolerance: ± 0.014 (± 0.35)
6. Case tolerance: ± 0.02 (± 0.5)
7. Weight: 0.06 lbs (2.8 g)

Input Voltage	Output Voltage	Output Current	No Load Input Current	Max Capacitive Load	Efficiency	Load Reg.	Model [®] Number
5 VDC	5.0 V	200 mA	20 mA	200 μ F	83%	6.0%	IQ0505SA
	9.0 V	111 mA	20 mA	200 μ F	86%	5.5%	IQ0509SA
	12.0 V	83 mA	20 mA	100 μ F	87%	5.5%	IQ0512SA
	15.0 V	67 mA	20 mA	100 μ F	87%	5.0%	IQ0515SA
12 VDC	5.0 V	200 mA	15 mA	200 μ F	84%	4.0%	IQ1205SA
	9.0 V	111 mA	15 mA	200 μ F	86%	3.5%	IQ1209SA
	12.0 V	83 mA	15 mA	100 μ F	88%	3.5%	IQ1212SA
	15.0 V	67 mA	15 mA	100 μ F	88%	3.0%	IQ1215SA
15 VDC	5.0 V	200 mA	10 mA	200 μ F	84%	4.0%	IQ1505SA
	9.0 V	111 mA	10 mA	200 μ F	86%	3.5%	IQ1509SA
	12.0 V	83 mA	10 mA	100 μ F	87%	3.5%	IQ1512SA
	15.0 V	67 mA	10 mA	100 μ F	89%	3.0%	IQ1515SA
24 VDC	5.0 V	200 mA	7 mA	200 μ F	81%	4.0%	IQ2405SA
	9.0 V	111 mA	7 mA	200 μ F	84%	3.5%	IQ2409SA
	12.0 V	83 mA	7 mA	100 μ F	85%	3.5%	IQ2412SA
	15.0 V	67 mA	7 mA	100 μ F	86%	2.5%	IQ2415SA
48 VDC	5.0 V	200 mA	5 mA	200 μ F	78%	4.0%	IQ4805SA
	9.0 V	111 mA	5 mA	200 μ F	80%	3.5%	IQ4809SA
	12.0 V	83 mA	5 mA	100 μ F	81%	3.0%	IQ4812SA
	15.0 V	67 mA	5 mA	100 μ F	81%	3.0%	IQ4815SA

Mechanical Details



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