



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

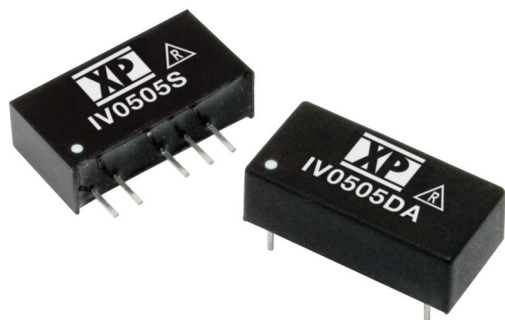
Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

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

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



IV Series



- Single & Dual Output
- SIP or DIP Package
- 3000 VDC Isolation
- Optional 4000 & 6000 VDC Isolation
- -40 °C to +85 °C Operation
- MTBF >1.1 Mhrs
- 3 Year Warranty

Specification

Input

- Input Voltage Range • Nominal $\pm 10\%$ ⁽³⁾
- Input Reflected • 20 mA pk-pk through 12 μ H, 5 Hz to 20 MHz
- Ripple Current
- Input Reverse Voltage Protection • None
- Input Filter • Capacitor

Output

- Output Voltage • See table
- Minimum Load • None⁽⁴⁾
- Line Regulation • 1.2%/1% Δ Vin
- 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 • Dual: $\pm 100 \mu$ F, Single: 220 μ F

General

- Efficiency • See table
- Isolation Voltage • 3000 VDC⁽⁶⁾
- Isolation Resistance • $10^9 \Omega$
- Isolation Capacitance • 60 pF typical
- Switching Frequency • Variable, 80 KHz 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 dual output, delete suffix 'A', and split current equally between rails.
2. For DIP package, replace 'S' in part number with 'D'.
3. For 48 V nominal input, a 4.7-47 μ F capacitor is required across the input.
4. Operation at no load will not damage unit but it may not meet all specifications.
5. 48 V model dimension is 0.28 (7.20).
6. For 4000VDC Isolation, add suffix '-H4'. For 6000 VDC Isolation, add suffix '-H6'.
7. All dimensions in inches (mm).
8. Pin pitch tolerance: ± 0.014 (± 0.35)
9. Case tolerance: ± 0.02 (± 0.5)
10. Weight: SIP 0.006 lbs (2.6 g), DIP 0.005 lbs (2.3 g)

Input Voltage ⁽³⁾	No Load Input Current	Output Voltage	Output Current	Efficiency	Model Number ^(1,2)
5 VDC	30 mA	3.3 V	300 mA	75%	IV0503SA
	30 mA	5.0 V	200 mA	78%	IV0505SA
	30 mA	9.0 V	112 mA	75%	IV0509SA
	30 mA	12.0 V	84 mA	76%	IV0512SA
	30 mA	15.0 V	66 mA	76%	IV0515SA
	30 mA	24.0 V	42 mA	72%	IV0524SA
12 VDC	20 mA	3.3 V	300 mA	74%	IV1203SA
	20 mA	5.0 V	200 mA	74%	IV1205SA
	20 mA	9.0 V	112 mA	75%	IV1209SA
	20 mA	12.0 V	84 mA	77%	IV1212SA
	20 mA	15.0 V	66 mA	78%	IV1215SA
	20 mA	24.0 V	42 mA	75%	IV1224SA
24 VDC	10 mA	3.3 V	300 mA	75%	IV2403SA
	10 mA	5.0 V	200 mA	77%	IV2405SA
	10 mA	9.0 V	112 mA	75%	IV2409SA
	10 mA	12.0 V	84 mA	78%	IV2412SA
	10 mA	15.0 V	66 mA	78%	IV2415SA
	10 mA	24.0 V	42 mA	78%	IV2424SA
48 VDC	6 mA	3.3 V	300 mA	72%	IV4803SA
	6 mA	5.0 V	200 mA	72%	IV4805SA
	6 mA	9.0 V	112 mA	74%	IV4809SA
	6 mA	12.0 V	84 mA	75%	IV4812SA
	6 mA	15.0 V	66 mA	75%	IV4815SA
	6 mA	24.0 V	42 mA	70%	IV4824SA

Mechanical Details

