



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

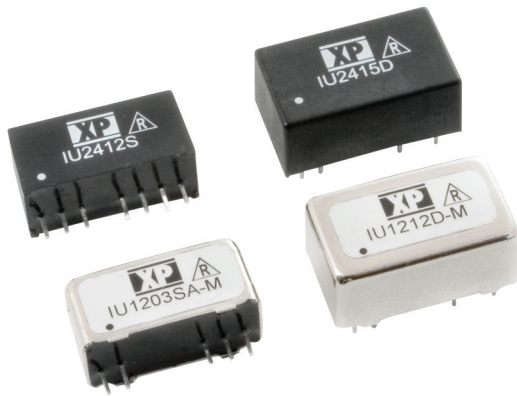
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2 Watts IU Series



- Regulated Single & Dual Output
- Wide 2:1 Input Range
- SIP or DIP Package
- 1000 VDC Isolation (Optional 3000 VDC)
- Optional Metal Case
- Continuous Short Circuit Protection
- 3 Year Warranty

Specification

Input

- Input Voltage Range • See table
- Input Reflected Ripple Current • 35 mA pk-pk through 12 μ H inductor, 5-20 MHz
- Input Filter • Capacitor

Output

- Output Voltage • See table
- Minimum Load • None⁽⁶⁾
- Line Regulation • $\pm 0.5\%$
- Load Regulation • $\pm 1\%$ for a 25-100% load change⁽⁷⁾
- Setpoint Accuracy • $\pm 2\%$
- Cross Regulation • $\pm 5\%$ on dual output models
- Ripple & Noise • 80 mV pk-pk max, 20 MHz bandwidth⁽⁸⁾
- Short Circuit Protection • Continuous with auto recovery (foldback)
- Max Capacitive Load • See table
- Remote On/Off • Optional on SIP package model⁽⁹⁾
- Temperature Coefficient • 0.02%/C

General

- Efficiency • See table
- Isolation Voltage • 1000 VDC, Optional 3000 VDC⁽²⁾
- Isolation Resistance • $10^9 \Omega$
- Isolation Capacitance • 60 pF
- Switching Frequency • 100-650 kHz
- MTBF • >1.61 Mhrs to MIL-HDBK-217F, at 25 °C, GB

Environmental

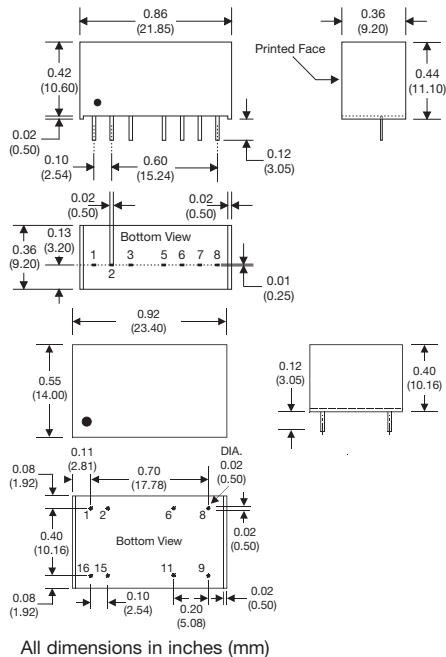
- Operating Temperature • -40 °C to +85 °C
- Storage Temperature • -40 °C to +125 °C
- Case Temperature • +100 °C max
- Cooling • Convection cooled

Notes

- For dual inline package replace 'S' in model number with 'D'.
- For optional 3 kV isolation add suffix '-H' to the model number.
- For dual output delete suffix 'A' & split output current equally between rails.
- For optional Remote On/Off on SIP models, add suffix '-R' to model number. Applying 5 V via 1 k Ω current limiting resistor and diode turns output off.
- For optional metal case, add suffix '-M' to model number.
- Output capacitor of 100 μ F required to meet quoted ripple & noise.
- Minimum load of 25% required to meet load regulation & ripple & noise specifications.
- Operation at no load will not damage device but may not meet all specifications.
- Pin pitch tolerance: ± 0.014 (± 0.35), Case tolerance: ± 0.02 (± 0.5)
- Weight: SIP 0.009 lbs (4.0 g), DIP 0.013 lbs (6.0 g), Metal case weight: SIP 0.014 lbs (6.5 g), DIP 0.017 lbs (8.0 g), consult sales for drawing

Input Voltage	No Load Input Current	Output Voltage ⁽³⁾	Output Current	Max. Capacitive Load	Efficiency	Model Number (1-5)
4.5-9.0 V	15 mA	3.3 V	500 mA	3300 μ F	67%	IU0503SA
	15 mA	5.0 V	400 mA	3300 μ F	70%	IU0505SA
	30 mA	9.0 V	222 mA	470 μ F	72%	IU0509SA
	30 mA	12.0 V	167 mA	470 μ F	72%	IU0512SA
	30 mA	15.0 V	133 mA	470 μ F	73%	IU0515SA
	60 mA	24.0 V	83 mA	220 μ F	75%	IU0524SA
9.0-18.0 V	15 mA	3.3 V	500 mA	3300 μ F	67%	IU1203SA
	15 mA	5.0 V	400 mA	3300 μ F	77%	IU1205SA
	15 mA	9.0 V	222 mA	470 μ F	78%	IU1209SA
	15 mA	12.0 V	167 mA	470 μ F	80%	IU1212SA
	15 mA	15.0 V	133 mA	470 μ F	78%	IU1215SA
	15 mA	24.0 V	83 mA	220 μ F	80%	IU1224SA
18.0-36.0 V	8 mA	3.3 V	500 mA	3300 μ F	70%	IU2403SA
	8 mA	5.0 V	400 mA	3300 μ F	77%	IU2405SA
	8 mA	9.0 V	222 mA	470 μ F	80%	IU2409SA
	8 mA	12.0 V	167 mA	470 μ F	80%	IU2412SA
	8 mA	15.0 V	133 mA	470 μ F	80%	IU2415SA
	8 mA	24.0 V	83 mA	220 μ F	80%	IU2424SA
36.0-72.0 V	6 mA	3.3 V	500 mA	3300 μ F	71%	IU4803SA
	6 mA	5.0 V	400 mA	3300 μ F	74%	IU4805SA
	6 mA	9.0 V	222 mA	470 μ F	78%	IU4809SA
	6 mA	12.0 V	167 mA	470 μ F	78%	IU4812SA
	6 mA	15.0 V	133 mA	470 μ F	78%	IU4815SA
	6 mA	24.0 V	83 mA	220 μ F	80%	IU4824SA

Mechanical Details



PIN CONNECTIONS		
Pin	Single	Dual
1	-V Input	-V Input
2	+V Input	+V Input
3	Opt. ROF*	Opt. ROF**
5	N.P. / N.C.	N.C.
6	+V Output	+V Output
7	-V Output	-V Output
8	NC	Common

* When optional ROF is present pin 5 is No Connection.
When not present pin 3 & 5 are No Pin.

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When not present pin 3 & 5 are No Connection.

PIN CONNECTIONS		
Pin	Single	Dual
1	-V Input	-V Input
2	-V Input	-V Input
6	NC	Common
8	NC	-V Output
9	+V Output	+V Output
11	-V Output	Common
15	+V Input	+V Input
16	+V Input	+V Input