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
IM Series

- Regulated Single & Dual Output
- Wide 4:1 Input Range
- SIP Package
- 1500 VDC Isolation
- Remote On/Off
- Continuous Short Circuit Protection
- 3 Year Warranty

Specification

Input

Input Voltage Range	• See table
Input Reflected Ripple Current	• 20 mA pk-pk through 12 µH inductor and 47 µF capacitor, 5 Hz to 20 MHz
Input Filter	• Capacitor
Input Surge	• 24 V models: 50 VDC for 100 ms 48 V models: 100 VDC for 100 ms

Output

Output Voltage	• See table
Minimum Load	• None(1)
Line Regulation	• ±0.5% max
Load Regulation	• ±0.5% max from 10-100% load(1)
Setpoint Accuracy	• ±1% max
Ripple & Noise	• 50 mV pk-pk max, 20 MHz bandwidth
Short Circuit Protection	• Continuous with auto recovery (foldback)
Cross Regulation	• ±5% on dual output models(2)
Remote On/Off	• Applying 2.7 to 15 VDC to pin 3 will turn output off
Temperature Coefficient	• 0.02%/C

General

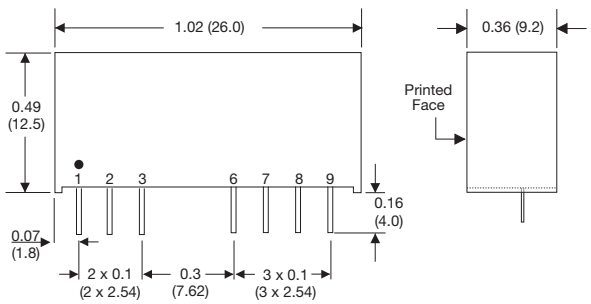
Efficiency	• See table
Isolation Voltage	• 1500 VDC
Isolation Resistance	• $10^9\ \Omega$
Isolation Capacitance	• 500 pF max
Switching Frequency	• 250 kHz typical
MTBF	• >1.2 MHrs to MIL-HDBK-217F at 25 °C, GB

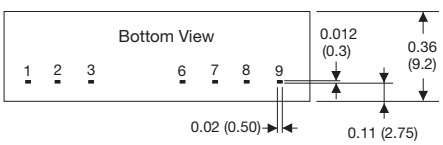
Environmental

Operating Temperature	• -40 °C to +100 °C, derate from 100% load at 75 °C to 0% load at 100 °C
Storage Temperature	• -40 °C to +125 °C
Case Temperature	• 100 °C max
Cooling	• Convection-cooled

Input Voltage	Output Voltage	Output Current	No Load Input Current(3)	Max Capacitive Load	Efficiency	Model Number
9.0-36.0 V	3.3 V	500 mA	10 mA	2200 µF	75%	IM2403SA
	5.0 V	400 mA	10 mA	1000 µF	81%	IM2405SA
	12.0 V	165 mA	10 mA	165 µF	84%	IM2412SA
	15.0 V	135 mA	10 mA	100 µF	85%	IM2415SA
	±5.0 V	±200 mA	10 mA	±470 µF	81%	IM2405S
	±12.0 V	±85 mA	10 mA	±100 µF	83%	IM2412S
	±15.0 V	±65 mA	10 mA	±47 µF	82%	IM2415S
18.0-75.0 V	3.3 V	500 mA	5 mA	2200 µF	75%	IM4803SA
	5.0 V	400 mA	5 mA	1000 µF	80%	IM4805SA
	12.0 V	165 mA	5 mA	165 µF	84%	IM4812SA
	15.0 V	135 mA	5 mA	100 µF	84%	IM4815SA
	±5.0 V	±200 mA	5 mA	±470 µF	80%	IM4805S
	±12.0 V	±85 mA	5 mA	±100 µF	81%	IM4812S
	±15.0 V	±65 mA	5 mA	±47 µF	84%	IM4815S

Mechanical Details





Notes

1. Operation at no load will not damage the converter but may not meet all specifications.
2. When one output is set to 100% load and the other varies between 25%-100% load.
3. Input current measured at nominal input voltage
4. Pin pitch tolerance: ±0.014 (±0.35)
5. Case tolerance: ±0.02 (±0.5)
6. Weight: 0.014 lbs (6.5 g)

PIN CONNECTIONS					
Pin	Single	Dual	Pin	Single	Dual
1	-V Input	-V Input	7	N.C.	Common
2	+V Input	+V Input	8	N.C.	N.C.
3	Remote On/Off	Remote On/Off	9	-V Output	-V Output
6	+V Output	+V Output			