



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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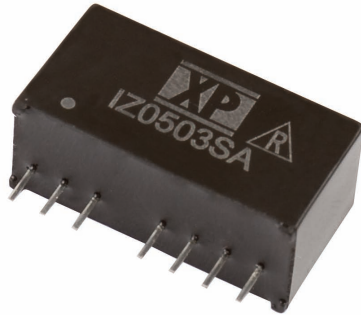
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# 3 Watts IZ Series



- Regulated Single & Dual Output
- Wide 2:1 Input Range
- SIP Package
- 1600 VDC Isolation
- Continuous Short Circuit Protection
- Remote On/Off
- 3 Year Warranty

## Specification

### Input

- Input Voltage Range** • See table
- Input Reflected Ripple Current** • 35 mA pk-pk through 12  $\mu$ H inductor and 47  $\mu$ F capacitor, 5 Hz to 20 MHz
- Input Filter** • Capacitor

### Output

- Output Voltage** • See table
- Minimum Load** • None<sup>(4)</sup>
- Line Regulation** •  $\pm 0.5\%$  max
- Load Regulation** •  $\pm 1.0\%$  max for a 25-100% load change
- Setpoint Accuracy** •  $\pm 1\%$  max
- Ripple & Noise** • 75 mV pk-pk max, 20 MHz bandwidth
- Short Circuit Protection** • Continuous with auto recovery (foldback)
- Cross Regulation** •  $\pm 5\%$  on dual output models<sup>(5)</sup>
- Remote On/Off** • Apply 3-6 mA to pin 3 to turn off output
- Temperature Coefficient** • 0.02%/C

### General

- Efficiency** • See table
- Isolation Voltage** • 1600 VDC
- Isolation Resistance** •  $10^9 \Omega$
- Isolation Capacitance** • 680 pF
- Switching Frequency** • 100-650 kHz
- MTBF** • >1.34 Mhrs to MIL-HDBK-217F at 25 °C, GB

### Environmental

- Operating Temperature** • -40 °C to +100 °C, derate from 100% load at +70 °C to 0% load at +100 °C
- Storage Temperature** • -40 °C to +125 °C
- Case Temperature** • +100 °C max
- Cooling** • Convection cooled

### Notes

1. Measured at nominal input voltage.
2. For optional metal case, add suffix '-M' to model number.
3. Minimum load of 25% required to meet load regulation & ripple & noise specifications.
4. Operation at no load will not damage the part but it may not meet all specifications.
5. When one output is set to 100% load and the other varies between 25-100% load.
6. Pin pitch tolerance:  $\pm 0.014$  ( $\pm 0.35$ )
7. Case tolerance:  $\pm 0.02$  ( $\pm 0.5$ )
8. Weight: SIP 0.009 lbs (3.9 g), DIP 0.013 lbs (5.9 g)
9. All dimensions in inches (mm)

Input Voltage	No Load <sup>(1)</sup> Input Current	Output Voltage	Output Current	Efficiency	Max Capacitive Load	Model Number <sup>(2)</sup>
4.5-9.0 V	65 mA	3.3 V	700 mA	74%	2200 $\mu$ F	IZ0503SA
	70 mA	5.0 V	600 mA	76%	1000 $\mu$ F	IZ0505SA
	75 mA	12.0 V	250 mA	82%	470 $\mu$ F	IZ0512SA
	75 mA	15.0 V	200 mA	82%	220 $\mu$ F	IZ0515SA
	90 mA	$\pm 5.0$ V	$\pm 300$ mA	77%	$\pm 470$ $\mu$ F	IZ0505S
	90 mA	$\pm 12.0$ V	$\pm 125$ mA	81%	$\pm 220$ $\mu$ F	IZ0512S
9.0-18.0 V	90 mA	$\pm 15.0$ V	$\pm 100$ mA	82%	$\pm 100$ $\mu$ F	IZ0515S
	25 mA	3.3 V	700 mA	76%	2200 $\mu$ F	IZ1203SA
	35 mA	5.0 V	600 mA	81%	1000 $\mu$ F	IZ1205SA
	35 mA	12.0 V	250 mA	84%	470 $\mu$ F	IZ1212SA
	35 mA	15.0 V	200 mA	84%	220 $\mu$ F	IZ1215SA
	45 mA	$\pm 5.0$ V	$\pm 300$ mA	80%	$\pm 470$ $\mu$ F	IZ1205S
18.0-36.0 V	45 mA	$\pm 12.0$ V	$\pm 125$ mA	83%	$\pm 220$ $\mu$ F	IZ1212S
	45 mA	$\pm 15.0$ V	$\pm 100$ mA	82%	$\pm 100$ $\mu$ F	IZ1215S
	15 mA	3.3 V	700 mA	74%	2200 $\mu$ F	IZ2403SA
	15 mA	5.0 V	600 mA	79%	1000 $\mu$ F	IZ2405SA
	20 mA	12.0 V	250 mA	82%	470 $\mu$ F	IZ2412SA
	20 mA	15.0 V	200 mA	84%	220 $\mu$ F	IZ2415SA
36.0-72.0 V	20 mA	$\pm 5.0$ V	$\pm 300$ mA	80%	$\pm 470$ $\mu$ F	IZ2405S
	20 mA	$\pm 12.0$ V	$\pm 125$ mA	83%	$\pm 220$ $\mu$ F	IZ2412S
	20 mA	$\pm 15.0$ V	$\pm 100$ mA	83%	$\pm 100$ $\mu$ F	IZ2415S
	10 mA	3.3 V	700 mA	75%	2200 $\mu$ F	IZ4803SA
	10 mA	5.0 V	600 mA	78%	1000 $\mu$ F	IZ4805SA
	15 mA	12.0 V	250 mA	81%	470 $\mu$ F	IZ4812SA
	15 mA	15.0 V	200 mA	81%	220 $\mu$ F	IZ4815SA
	35 mA	$\pm 5.0$ V	$\pm 300$ mA	78%	$\pm 470$ $\mu$ F	IZ4805S
	20 mA	$\pm 12.0$ V	$\pm 125$ mA	80%	$\pm 220$ $\mu$ F	IZ4812S
	20 mA	$\pm 15.0$ V	$\pm 100$ mA	81%	$\pm 100$ $\mu$ F	IZ4815S

### Mechanical Details

