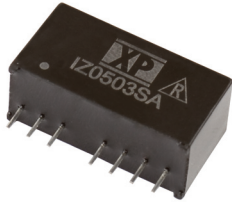




**THE DATASHEET OF
IZ4803SA**



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

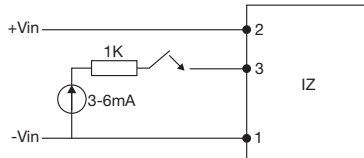
Specification

Input

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

Output

- Output Voltage • See table
 Minimum Load • None⁽⁴⁾
 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⁽⁵⁾
 Temperature Coefficient • 0.02%/C
 Remote On/Off • Module "on" if pin 3 is open circuit. Module "off" by driving 3-6mA into pin 3. Maximum applied voltage 9.7VDC relative to -Vin. See below.



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

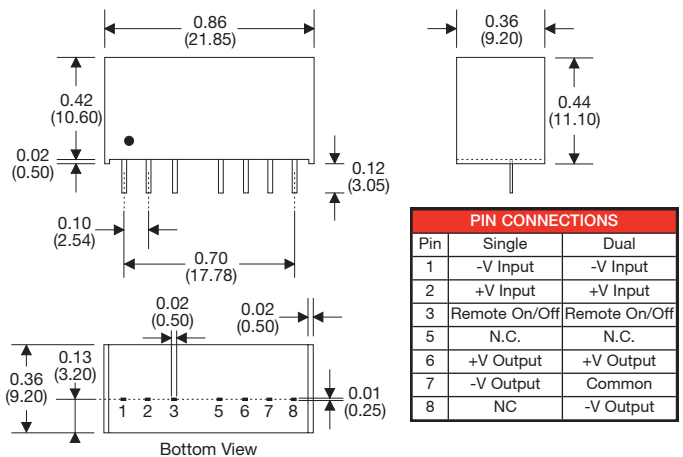
- Operating Temperature • -40 °C to +100 °C, derate from 100% load at +70 °C to 0% load at +100 °C
 Storage Temperature • -40 °C to +125 °C
 Case Temperature • +100 °C max
 Cooling • Convection cooled

Safety

- Safety Approvals • UL60950-1, CAN/CSA C22.2 No.60950-1, UL62368-1, CE & UKCA meets all applicable directives & legislation

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

Mechanical Details





Notes







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

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

-  [View IZ4803SA on WIN SOURCE](#)
-  [XP Power Information](#)

Optimize Your Supply Chain with WIN SOURCE Solutions

-  Global Sourcing Solution
-  Obsolete Management
-  Cost Control Management
-  Shortage Management
-  Alternative Solution
-  Excess Inventory Management