



DESCRIPTION

The AD-IBxxxxS-2WR3 series are specially designed for applications where a single power supply is highly isolated from the input power supply in a distributed power supply system on a circuit board.

These products apply to:

- 1) Where the voltage of the input power supply is fixed (voltage variation $\leq \pm 5\%$)
- 2) Where isolation is necessary between input and output (isolation voltage $\leq \pm 1000\text{VDC}$)
- 3) Where the regulation of the output voltage and the output ripple and noise are demanded

FEATURES

- Compact size
- SIP package
- I/O Isolation test voltage 1500VDC
- -40°C to $+85^{\circ}\text{C}$ Working Temperature Range
- Excellent thermal characteristic
- Low static current and high conversion efficiency
- Low ripple coefficient and low noise
- Built in soft start technology
- Short Circuit Protection
- Internal surface mounted design
- Industry standard pin-out
- No external components required.

ORDERING INFORMATION

Part Number	Input		Output	
	Nominal Voltage	Range Voltage	Voltage (VDC)	Current (mA)
AD-IB0505S-2WR3	5V	4.75V~5.25V	5	400
AD-IB0512S-2WR3			12	166
AD-IB1205S-2WR3	12V	11.4V~12.6V	5	400
AD-IB1212S-2WR3			12	166
AD-IB1215S-2WR3			15	133
AD-IB2405S-2WR3	24V	22.8V~25.2V	5	400

**ISOLATION SPECIFICATIONS**

Item	Test Condition	Min	Typ	Max	Unit
Isolation Voltage	Tested for 1minutest and 1mA max	1500			VDC
Isolation Resistance	Test at 500VDC	1000			MΩ
Isolation Capacitance			40		pF

OUTPUT SPECIFICATIONS

Item	Test Condition	Min	Typ	Max	Unit
Storage Humidity		5		95	%RH
Operating Temperature		-40		85	°C
Storage Temperature		-40		125	°C
Temp. Rise at Full Load					
Lead Temperature	1.5mm from case for 10 seconds				
Short Circuit Protection		Continuous, Automatic Recover			
Cooling		Free air convection			
Case Material		Plastic (UL94-V0)			
MTBF		3500			K Hours

COMMON SPECIFICATIONS

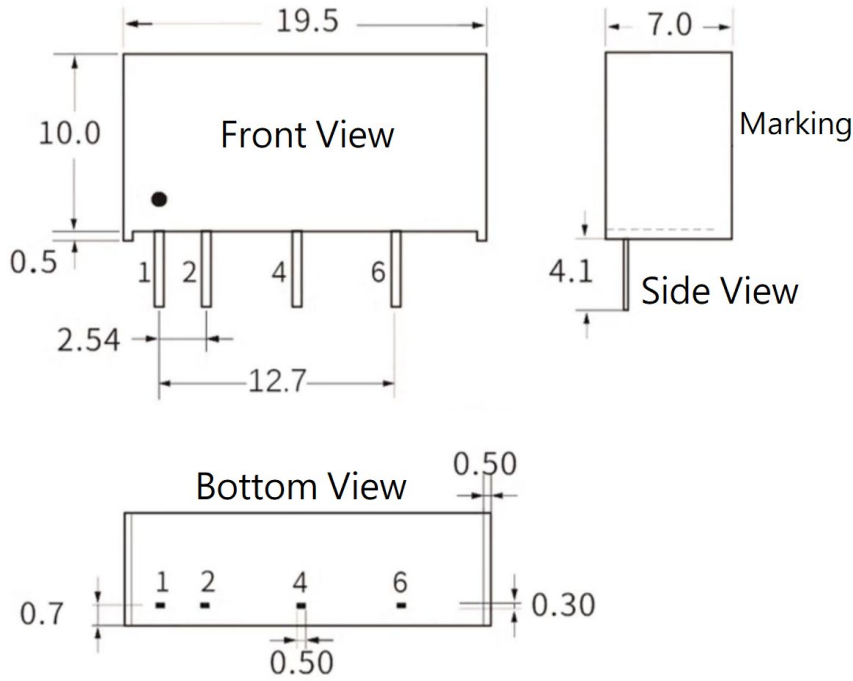
TA =25°C, Humidity <75%, nominal input volage and rated output load, unless otherwise specified.

Item	Test Condition	Min	Typ	Max	Unit
Output Power				2	W
Line Regulation	For Vin Change of 5%			±0.5	%
Load Regulation	10% to 100% Load	±1		±2	%
Output Voltage Accuracy	100% Full Load			±3	%
Temperature Drift	100% Full Load			0.03	%/°C
Ripple & Noise	20MHz Bandwidth	30			mVp-p



PACKAGE INFORMATION

SIP Package



Unit: mm

Tolerance: ± 0.25

Pin #	Function
1	Vin
2	GND
4	0V
6	+Vo