

FEATURES:

- Fixed voltage input, single/dual unregulated output, 1W
- Continuous short-circuit protection, self recover
- I/O isolation voltage 1.5KV
- Working temperature: -40°C~+105°C
- No additional components required
- Stable performance and high reliability (MTBF≥3500K hours)
- Industry standard pin-out
- Flame-retardant case to meet UL94-V0 requirements
- SIP package

Selection Guide

Part No.	INPUT		OUTPUT			Full Load Efficiency (%/Typ)	Capacitive Load(μF)
	Normal (Vdc)	Range (Vdc)	Voltage (Vdc)	Min current (mA)	Max current (mA)		
D030303S-1WR3	3.3	2.97-3.63	3.3	15/15	152/152	74	100
D030505S-1WR3			5	10/10	100/100	78	100
D030909S-1WR3			9	6/6	56/56	78	100
D031212S-1WR3			12	5/5	42/42	78	100
D031515S-1WR3			15	4/4	34/34	78	100
D032424S-1WR3			24	3/3	21/21	78	100
D050303S-1WR3	5	4.5-5.5	3.3	15/15	152/152	76	100
D050505S-1WR3			5	10/10	100/100	80	100
D050909S-1WR3			9	6/6	56/56	80	100
D051212S-1WR3			12	5/5	42/42	80	100
D051515S-1WR3			15	4/4	34/34	80	100
D052424S-1WR3			24	3/3	21/21	80	100
D090303S-1WR3	9	8.1-9.9	3.3	15/15	152/152	76	100
D090505S-1WR3			5	10/10	100/100	80	100
D090909S-1WR3			9	6/6	56/56	80	100
D091212S-1WR3			12	5/5	42/42	80	100
D091515S-1WR3			15	4/4	34/34	80	100
D092424S-1WR3			24	3/3	21/21	80	100
D120303S-1WR3	12	10.8-13.2	3.3	15/15	152/152	76	100
D120505S-1WR3			5	10/10	100/100	80	100
D120909S-1WR3			9	6/6	56/56	80	100
D121212S-1WR3			12	5/5	42/42	80	100
D121515S-1WR3			15	4/4	34/34	80	100
D122424S-1WR3			24	3/3	21/21	80	100
D150303S-1WR3			3.3	15/15	152/152	76	100
D150505S-1WR3			5	10/10	100/100	80	100
D150909S-1WR3			9	6/6	56/56	80	100

D151212S-1WR3	15V	13.5-16.5V	12	5/5	42/42	80	100
D151515S-1WR3			15	4/4	34/34	80	100
D152424S-1WR3			24	3/3	21/21	80	100
D150303S-1WR3	24V	21.6-26.4	3.3	15/15	152/152	76	100
D150505S-1WR3			5	10/10	100/100	80	100
D150909S-1WR3			9	6/6	56/56	80	100
D151212S-1WR3			12	5/5	42/42	80	100
D151515S-1WR3			15	4/4	34/34	80	100
D152424S-1WR3			24	3/3	21/21	80	100

customized accepted ,pls contact sales for details

Input Specifications

Input Filter	Capacitive Filter	
Ctrl	NONE	
	NONE	
Hot Plug	Unavailable	

Output Specifications

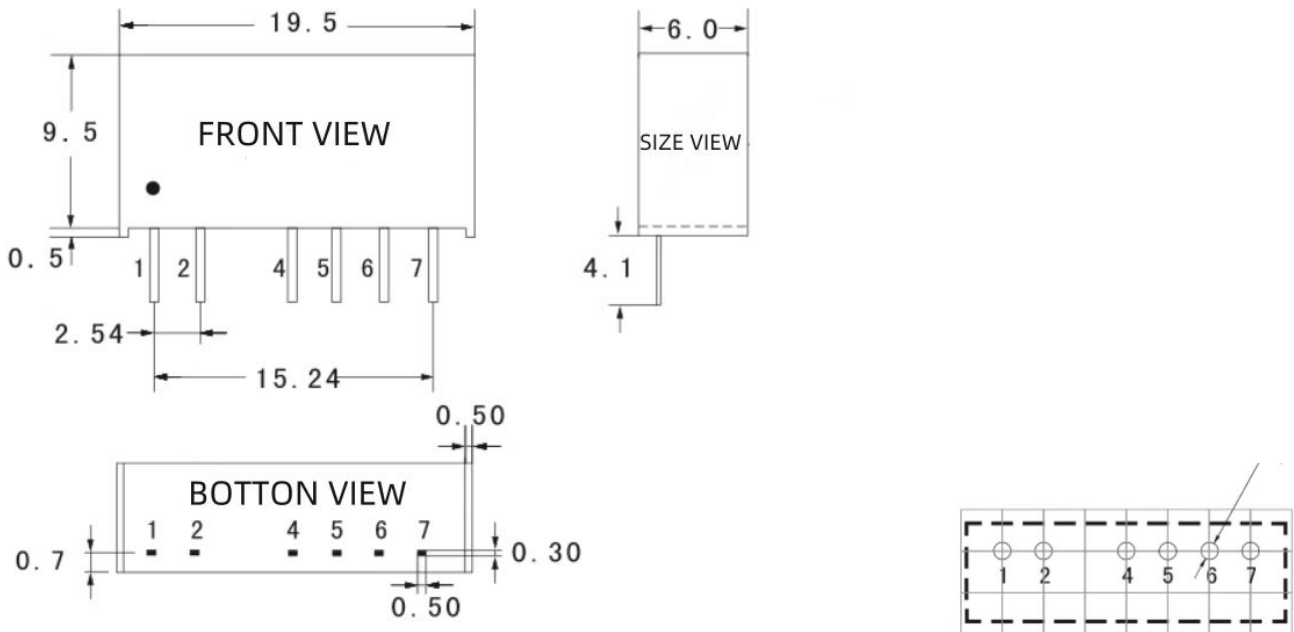
Item	Typ	Max	Test Conditions
Voltage Accuracy	±1%	±3%	input voltage range and load
Line Regulation	±0.2%	±0.5%	Input voltage from low to high voltage, full load
Load Regulation	±0.5%	±1%	10% to 100% full load
Ripple&Noise	50mVp-p	150mVp-p	20MHz Bandwidth, full load

General Specifications

Switching Frequency	300KHz(Typ)	100% full load, nominal input voltage
Short-Circuit Protection	Continuous, self-recovery	
Case Temperature Rise	15°C (Typ)	
Temperature Coefficient	0.03%/°C	100% full load
Pin Soldering Resistance Temperature	300°C	Soldering spot is 1.5mm away from case for 10 seconds
Isolation (Input-Output)	1.5KVDC	Input-output electric strength test for 1 minute with a leakage current
Insulation Resistance (Input-Output)	1000MΩ	Input-output resistance 500Vdc
Operating Temperature	-40~+105°C	
Storage Temperature	-55~+125°C	
Storage Humidity	<95%	Non-condensing
Cooling Method	Free air convection	
Case Material	Black plastic; flame-retardant and heat-resistant (UL94 V-0)	
Weight	2.1g (Typ)	

**Unless specified, otherwise all other parameters are tested under the following conditions: nominal input voltage, pure resistive load, 25°C room temperature environment.

Dimensions and Recommended Layout



Note:
Unit: mm[inch]
Pin section tolerances: $\pm 0.10[\pm 0.004]$
General tolerances: $\pm 0.25[\pm 0.010]$

Pin-out

Pin			
1	+Vin		
2	-Vin		
4	0V1		
5	+Vo1		
6	0V2		
7	+Vo2		

Recommended Circuit



Vin	Cin	Vout	Cout
3.3/5VDC	4.7uF/16VDC	3.3/5VDC	4.7uF/16V
9/12VDC	2.2uF/25VDC	9/12VDC	1uF/25V
15/24VDC	2.2uF/50VDC	15/24VDC	1uF/50VDC

Noted

1. Input current: Ensure that the output current of the power supply meets the instantaneous starting current of the power module (that is, twice the average input current of the power module).
2. Output load requirements: Avoid no-load use. When the actual power consumption of the load is less than 10% of the rated output power of the module or no load occurs, connect an external resistance to the output end (the sum of the external resistance and the load power is greater than or equal to 10% of the rated load) or select a module with a smaller rated power.
3. The external capacitance of the output end should not be too large; otherwise, the module may be overcurrent or poorly started. For details, see the external capacitance recommendation table.
4. External LC filter circuit can be connected for occasions with high ripple noise requirements.