

## FEATURES:

- Fixed voltage input, unregulated dual 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
- DIP 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)		
A0503D-1WR3	5	4.5-5.5	±3.3	±15	±152	74	1200
A0505D-1WR3			±5	±10	±100	80	1200
A0509D-1WR3			±9	±6	±56	81	470
A0512D-1WR3			±12	±5	±42	81	220
A0515D-1WR3			±15	±4	±34	81	220
A1205D-1WR3	12	10.8-13.2	±5	±10	±100	80	1200
A1212D-1WR3			±12	±5	±42	81	280
A1224D-1WR3			±24	±2	±21	80	110
A1524D-1WR3	15	13.5-16.5	±24	±2	±21	81	110
A2409D-1WR3	24	21.6-26.4	±9	±6	±56	80	500
A2412D-1WR3			±12	±5	±42	81	280
A2415D-1WR3			±15	±3	±33	79	280

\*\*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

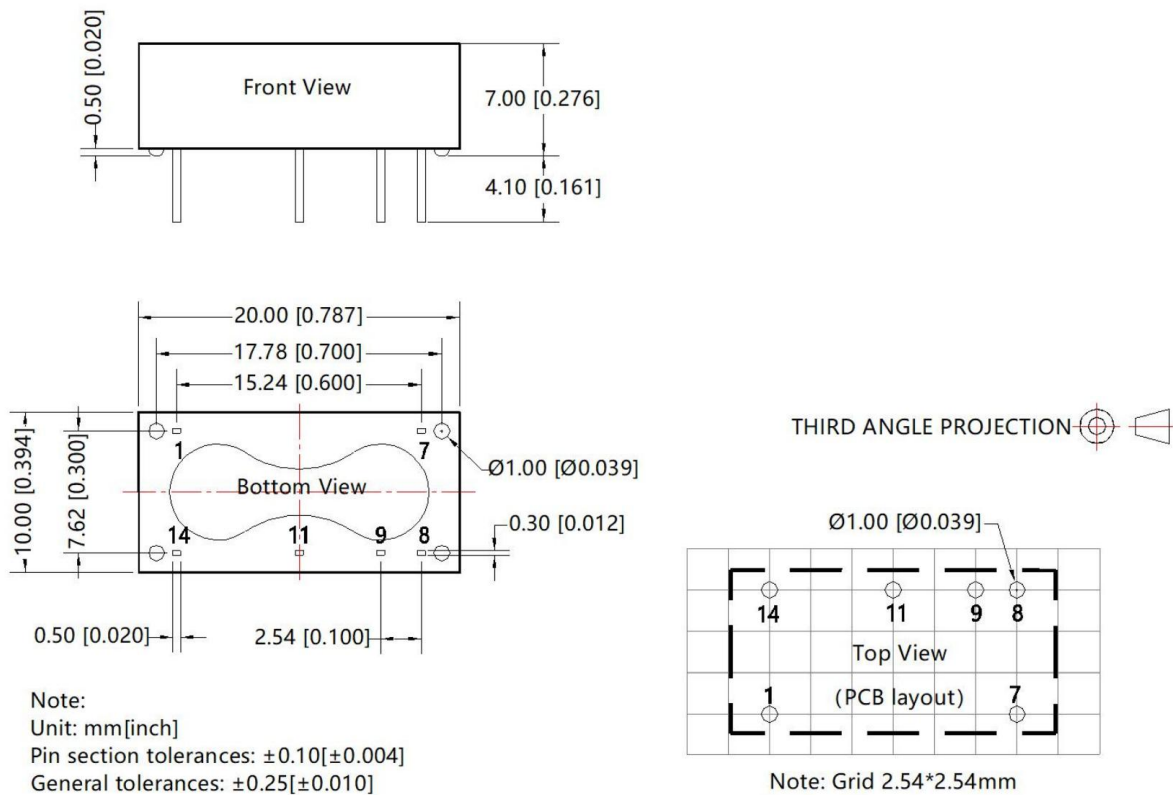
## General Specifications

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	1.3g (Typ)	

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

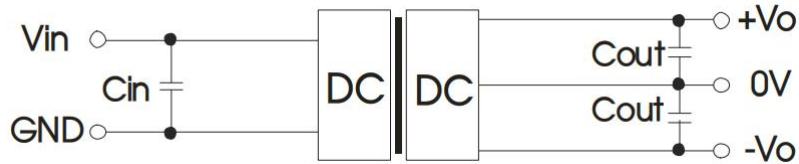
**Dimensions and Recommended Layout**



**Pins**

Pin	Mark		
1	GND		
7	NC		
8	0V		
9	+Vo		
11	-Vo		
14	Vin		

**Recommended Circuit**



**Recommended input and output capacitor values**

Vin	Cin	Vout	Cout	
5V	4.7uF/16V	±3.3/±5VDC	4.7uF/16V	
-	-	±9/±12VDC	1uF/25V	
-	-	±15VDC	0.47uF/50V	
12VDC	2.2uF/25V	±5/9VDC	4.7uF/16V	
15VDC	2.2uF/25V	±12/15VDC	1uF/25V	
24VDC	1uF/50V	±24VDC	0.47uF/50V	

**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.