FEATURES：

- Fixed voltage input,single/dual unregulated output,2W
- Continuous short-circuit protection,self recover
- I/O isolation voltage 1.5KV
- Working temperature：-40℃～+105℃
- 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）	CapacitiveLoad(μF)
	Norminal （Vdc）	Range （Vdc）	Voltage (Vdc)	Min current (mA)	Max current (mA)		
A0503S-2WR3	5V	4.5-5.5V	±3.3	30	303	75	1200
A0505S-2WR3			±5	20	200	84	1200
A0509S-2WR3			±9	11	111	85	470
A0512S-2WR3			±12	8	83	85	220
A0515S-2WR3			±15	7	67	86	220
A0524S-2WR3			±24	4	42	86	100
B0503S-2WR3			3.3	40	400	78	2400
B0505S-2WR3			5	40	400	84	2400
B0507S-2WR3			7.2	28	278	84	1000
B0509S-2WR3			9	22	222	85	1000
B0512S-2WR3			12	17	167	85	560
B0515S-2WR3			15	13	133	86	560
B0524S-2WR3			24	8	83	86	220
A1203S-2WR3	12V	10.8-13.2V	±3.3	30	303	75	1200
A1205S-2WR3			±5	20	200	80	1200
A1207S-2WR3			±9	11	111	80	470
A1209S-2WR3			±12	8	83	82	220
A1212S-2WR3			±15	7	67	83	220
A1215S-2WR3			±24	4	42	83	100
A1224S-2WR3			3.3	40	400	83	2400
B1203S-2WR3			5	40	400	79	2400
B1205S-2WR3			7.2	28	278	82	1000
B1209S-2WR3			9	22	222	82	1000
B1212S-2WR3			12	17	167	84	560
B1215S-2WR3			15	13	133	85	560
B1224S-2WR3			24	8	83	86	220
A1505S-2WR3	15V	13.5-16.5V	±5	20	200	80	1200

A1515S-2WR3			±15	7	67	82	220
B1505S-2WR3			5	40	400	80	2400
B1515S-2WR3			15	13	133	81	560
B1524S-2WR3			24	8	83	81	220
A2403S-2WR3	24V	21.6-26.4V	±3.3	30	303	76	1200
A2405S-2WR3			±5	20	200	80	1200
A2407S-2WR3			±9	11	111	80	470
A2409S-2WR3			±12	8	83	81	220
A2412S-2WR3			±15	7	67	83	220
A2415S-2WR3			±24	4	42	83	100
A2424S-2WR3			3.3	40	400	83	2400
B2403S-2WR3			5	40	400	76	2400
B2405S-2WR3			7.2	28	278	80	1000
B2409S-2WR3			9	22	222	81	1000
B2412S-2WR3			12	17	167	84	560
B2415S-2WR3			15	13	133	86	560
B2424S-2WR3			24	8	83	86	220

customized accepted ,pls contact sales for details

Input Specifications		
Input Filter	Capacitive Filter	
Ctrl	NONE	
	NONE	
Hot Plug	Unavailable	

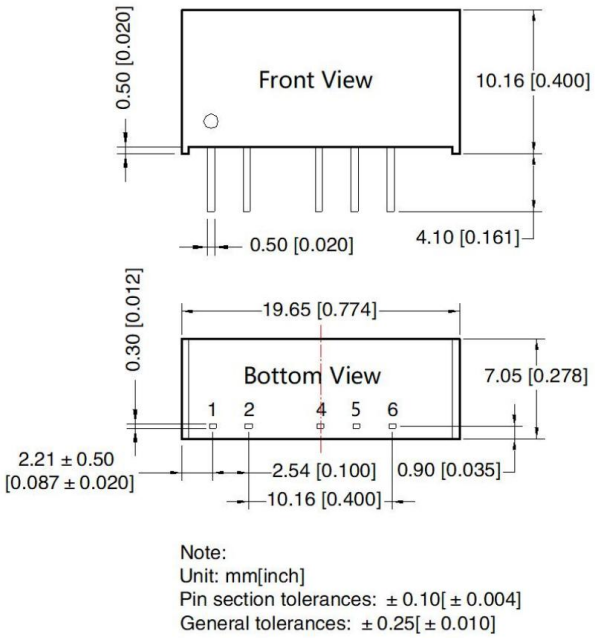
Output Specifications			
Item	Typ	Max	Test Conditions
Voltage Accuracy	±1%	±3%	input voltage range and load
Line Regulation	±0.2%	±0.5%	Input voltage from low to high voltage, full load
Load Regulation	±0.5%	±1%	10% to 100% full load
Ripple&Noise	50mVp-p	150mVp-p	20MHz Bandwidth, full load

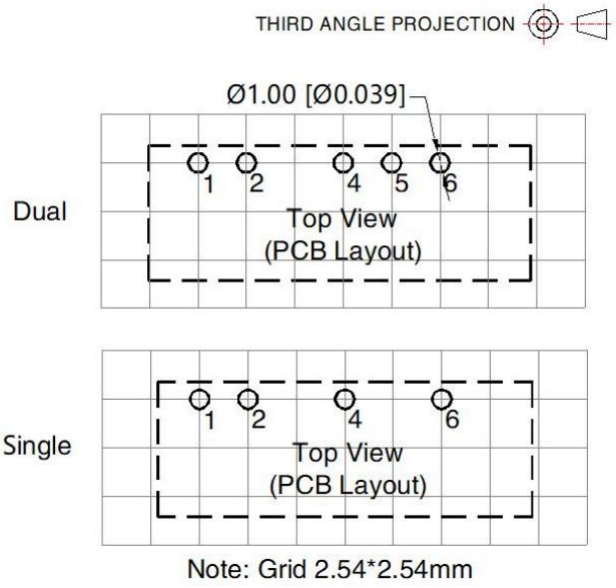
Gerneral Specifications		
Switching Frequency	300KHz(Typ)	100% full load, nominal input voltage
Short-Circuit Protection	Continuous, self-recovery	
Case Temperature Rise	15℃（Typ）	
Temperature Coefficient	0.03%/℃	100% full load
Pin Soldering Resistance Temperature	300℃	Soldering spot is 1.5mm away from 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℃	

Storage Temperature	-55～+125℃	
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℃ room temperature environment.

Dimensions and Recommended Layout





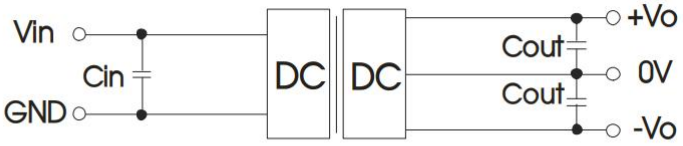
Note: Grid 2.54*2.54mm

Pin-out

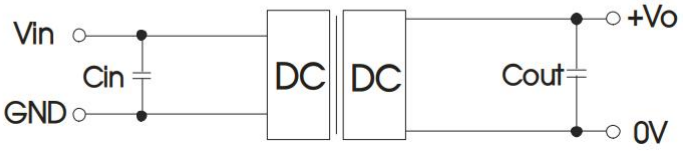
Pin	Singe	Dual	
1	Vin	Vin	
2	GND	GND	
4	0V	-Vo	
5	No Pin	0V	
6	+Vo	+Vo	

Recommended Circuit

Dual Output



Single Output



Recommended input and output capacitor values					
Vin	Cin	Single Vout	Cout	Dual Vout	Cout
5VDC	10uF/16V	3.3VDC	10uF/16V	±3.3VDC	4.7uF/16V
12VDC	2.2uF/25V	5VDC	10uF/16V	±5VDC	4.7uF/16V
15VDC	2.2uF/25V	7.2VDC	10uF/16V	±7.2VDC	2.2uF/25V
24VDC	1uF/50V	9VDC	2.2uF/25V	±9VDC	2.2uF/25V
-	-	12VDC	2.2uF/25V	±12VDC	1uF/25V
-	-	15VDC	1uF/25V	±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.