

FEATURES:

- Fixed voltage input, single/dual unregulated, 0.25W
- 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)				
A0303S-W2R3	3.3	2.97-3.63	±3.3	4	38				
A0305S-W2R3			±5	2	25				
A0309S-W2R3			±9	1	14				
A0312S-W2R3			±12	1	10				
A0315S-W2R3			±15		8				
A0324S-W2R3			±24		6				
B0303LS-W2R3			3.3	7	76				
B0305LS-W2R3			5	5	50				
B0309LS-W2R3			9	2	28				
B0312LS-W2R3			12	2	21				
B0315LS-W2R3			15	1	17				
B0324LS-W2R3			24	1	10				
A0503S-W2R3			5V	4.5-5.5V	±3.3	4	38		
A0505S-W2R3					±5	2	25		
A0509S-W2R3	±9	1			14				
A0512S-W2R3	±12	1			10				
A0515S-W2R3	±15				8				
A0524S-W2R3	±24				6				
B0503LS-W2R3	3.3	7			76				
B0505LS-W2R3	5	5			50				
B0509LS-W2R3	9	2			28				
B0512LS-W2R3	12	2			21				
B0515LS-W2R3	15	1			17				
B0524LS-W2R3	24	1			10				
A1203S-W2R3	12V	10.8-13.2V			±3.3	4	38		
A1205S-W2R3					±5	2	25		
A1209S-W2R3			±9	1	14				

A1212S-W2R3			±12	1	10				
A1215S-W2R3			±15		8				
A1224S-W2R3			±24		6				
B1203LS-W2R3			3.3	7	76				
B1205LS-W2R3			5	5	50				
B1209LS-W2R3			9	2	28				
B1212LS-W2R3			12	2	21				
B1215LS-W2R3			15	1	17				
B1224LS-W2R3			24	1	10				
A1505S-W2R3	15V	13.5-16.5V	±5	2	25				
A1509S-W2R3			±9	1	14				
A1512S-W2R3			±12	1	10				
A1515S-W2R3			±15		8				
A1524S-W2R3			±24		6				
B1505LS-W2R3			5	5	50				
B1509LS-W2R3			9	2	28				
B1512LS-W2R3			12	2	21				
B1515LS-W2R3			15	1	17				
B1524LS-W2R3			24	1	10				
A2405S-W2R3			24V	21.6-26.4V	±5	2	25		
A2409S-W2R3					±9	1	14		
A2412S-W2R3	±12	1			10				
A2415S-W2R3	±15				8				
A2424S-W2R3	±24				6				
B2403LS-W2R3	3.3	7			76				
B2405LS-W2R3	5	5			50				
B2407LS-W2R3	7.2	3			35				
B2409LS-W2R3	9	2			28				
B2412LS-W2R3	12	2			21				
B2415LS-W2R3	15	1			17				
B2424LS-W2R3	24	1			10				

customized accepted ,pls contact sales for details

Input Specifications

Input Filter	Capacitive Filter		
Ctrl	NONE		
	NONE		
Hot Plug	Unavailable		

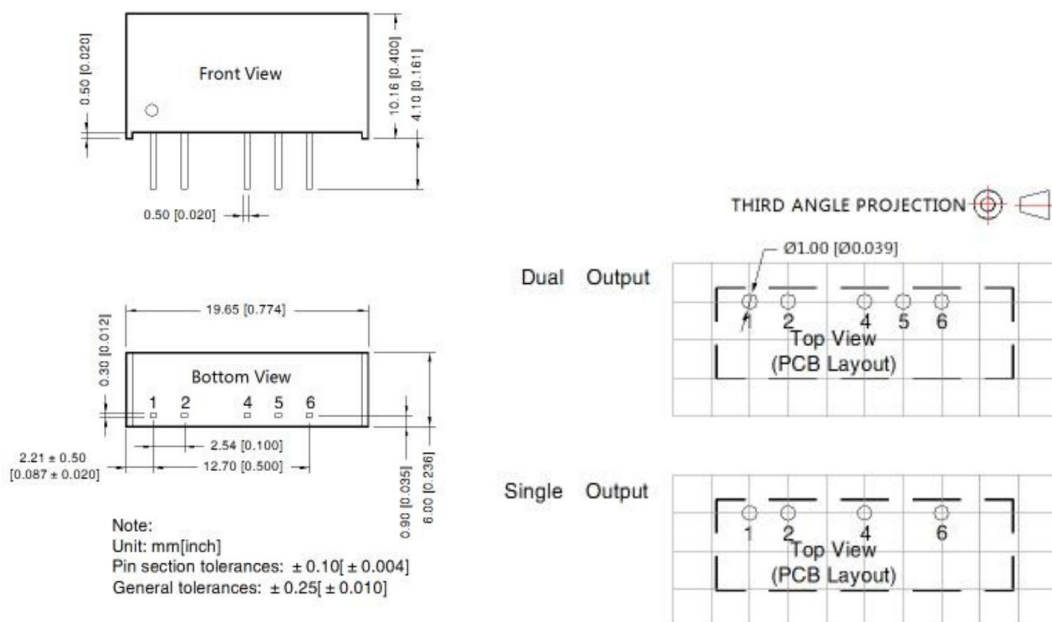
Output Specifications

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

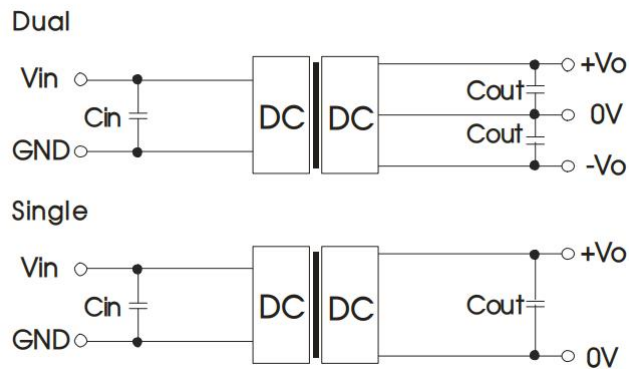


Pin-out

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

Recommended Circuit



Recommended input and output capacitor values

Vin		Cin	Single Vout	Cout	Dual Vout	Cout
3.3V	3.3VDC	10uF/16VDC	3.3/5VDC	10uF/16V	±3.3/±5VDC	10uF/16V
	-	-	9/12VDC	2.2uF/25V	±9/±12VDC	2.2uF/25V
	-	-	15/24VDC	1uF/50V	±15/±24VDC	1uF/50V
	5VDC	4.7uF/16VDC	3.3/5VDC	10uF/16V	±3.3/±5VDC	4.7uF/16V
	12VDC	2.2uF/25VDC	7.2/9VDC	2.2uF/16V	±9VDC	1uF/16V
	15VDC	2.2uF/25VDC	12VDC	2.2uF/25VDC	±12VDC	1uF/25V
	24VDC	1uF/50V	15VDC	1uF/25VDC	±15VDC	0.47uF/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.