

FEATURES:

- Fixed voltage input, dual unregulated output, 1W
- 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
- DIP package



Selection Guide

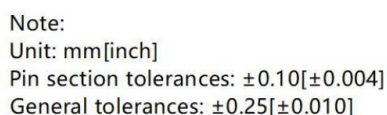
Part No.	INPUT		OUTPUT			Full Load Efficiency (%/Typ)	Capacitive Load(μF)
	Normal (Vdc)	Range (Vdc)	Voltage (Vdc)	Min current (mA)	Max current (mA)		
A0503D-1WR3	5	4.5-5.5	±3.3	±15	±151	74	1000
A0505D-1WR3			±5	±10	±100	82	1000
A0509D-1WR3			±9	±6	±56	83	470
A0512D-1WR3			±12	±5	±42	83	220
A0515D-1WR3			±15	±4	±33	83	220
A0524D-1WR3			±24	±3	±21	85	100
A1203D-1WR3	12	10.8-13.2	±3.3	±15	±151	74	1000
A1205D-1WR3			±5	±10	±100	82	1000
A1209D-1WR3			±9	±6	±56	83	470
A1212D-1WR3			±12	±5	±42	83	220
A1215D-1WR3			±15	±4	±33	83	220
A1224D-1WR3			±24	±3	±21	85	100
A1503D-1WR3	15	13.5-16.5	±3.3	±15	±151	74	1000
A1505D-1WR3			±5	±10	±100	82	1000
A1509D-1WR3			±9	±6	±56	83	470
A1512D-1WR3			±12	±5	±42	83	220
A1515D-1WR3			±15	±4	±33	83	220
A1524D-1WR3			±24	±3	±21	85	100
A2403D-1WR3	24	21.6-26.4	±3.3	±15	±151	74	1000
A2405D-1WR3			±5	±10	±100	82	1000
A2409D-1WR3			±9	±6	±56	83	470
A2412D-1WR3			±12	±5	±42	83	220
A2415D-1WR3			±15	±4	±33	83	220
A2424D-1WR3			±24	±3	±21	85	100

customized accepted ,pls contact sales for details

Input Specifications

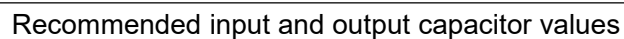
Input Filter	Capacitive Filter
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Ctrl	NONE			
	NONE			
Hot Plug	Unavailable			
Output Specifications				
Item	Min	Typ	Max	Test Conditions
Voltage Accuracy				
Line Regulation	-	-	1.2%	Input voltage ±1%
Load Regulation	-	-	10%	10% to 100% full load
Ripple&Noise	-	50mVp-p	75mVp-p	20MHz Bandwidth, full load
Gernal Specifications				
Switching Frequency	250KHz(Typ)			100% full load, nominal input voltage
Short-Circuit Protection	Continuous, self-recovery			
Case Temperature Rise	25℃（Typ）			
Temperature Coefficient	0.02%/℃			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%RH			Non-condensing
Cooling Method	Free air convection			
Case Material	Black plastic; flame-retardant and heat-resistant (UL94 V-0)			
Weight	2g（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				



Pin	Dual		
1	-Vin		
7	NC		
8	+Vo2		
9	-Vo2		
11	-Vo1		
14	+Vin		

Recommended Circuit



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

Note

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.

*The final interpretation right of the product belongs to ECCO ELECTRONICS.