

FEATURES:

- Fixed voltage input,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
- SMD package

Selection Guide

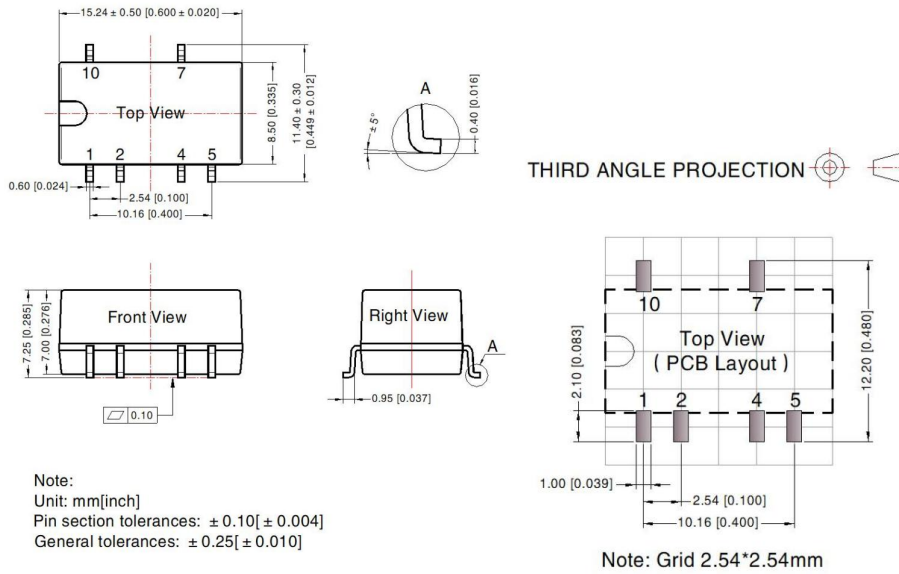
Part No.	INPUT		OUTPUT			Full Load Efficiency (%/Typ)	CapacitiveLoad(μF)
	Norminal (Vdc)	Range (Vdc)	Voltage (Vdc)	Min current (mA)	Max current (mA)		
A0303XT-1WR3	3.3	2.97-3.63	±3.3	±15	±152	74	1200
A0305XT-1WR3			±5	±10	±100	82	1200
A0309XT-1WR3			±9	±6	±56	83	470
A0312XT-1WR3			±12	±5	±42	83	220
A0315XT-1WR3			±15	±4	±34	83	220
A0324XT-1WR3			±24	±3	±21	85	100
A0503XT-1WR3	5	4.5-5.5	±3.3	±15	±152	74	1200
A0505XT-1WR3			±5	±10	±100	82	1200
A0509XT-1WR3			±9	±6	±56	83	470
A0512XT-1WR3			±12	±5	±42	83	220
A0515XT-1WR3			±15	±4	±34	83	220
A0524XT-1WR3			±24	±3	±21	85	100
A1205XT-1WR3	12	10.8-13.2	±5	±10	±100	82	1200
A1209XT-1WR3			±9	±6	±56	83	470
A1212XT-1WR3			±12	±5	±42	83	220
A1215XT-1WR3			±15	±4	±34	83	220
A1224XT-1WR3			±24	±3	±21	85	100
A1515XT-1WR3	15	13.5-16.5	±15	±4	±34	83	220
A2405XT-1WR3	24	21.6-26.4	±5	±10	±100	82	1200
A2409XT-1WR3			±9	±6	±56	83	470
A2412XT-1WR3			±12	±5	±42	83	220
A2415XT-1WR3			±15	±4	±34	83	220
A2424XT-1WR3			±24	±3	±21	85	100

customized accepted ,pls contact sales for details

Input Specifications

Input Filter	Capacitive Filter
Output Filter	NONE

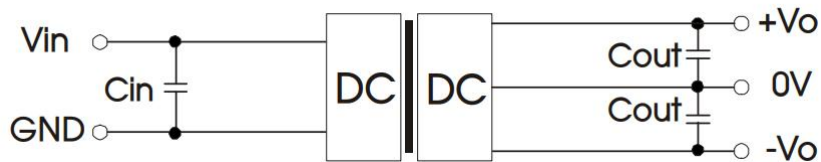
	NONE	
Hot Plug	Unavailable	
Output Specifications		
Item	Typ	Max
Voltage Accuracy	±1%	±3%
Line Regulation	±0.2%	±0.5%
Load Regulation	±0.5%	±1%
Ripple&Noise	50mVp-p	150mVp-p
		Test Conditions
		input voltage range and load
		Input voltage from low to high voltage, full load
		10% to 100% full load
		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		
2	Vin		
4	0V		
5	-Vo		
7	+Vo		
10	NC		

Recommended Circuit



Vin	Cin	Vo	Cout
3.3VDC	10µF/16V	±3.3VDC	10µF/16V
5VDC	4.7µF/16V	±5VDC	4.7µF/16V
12VDC	2.2µF/25V	±7.5VDC	1µF/16V
15VDC	2.2µF/25V	±9VDC	1µF/16V
24VDC	1µF/50V	±12VDC	1µF/25V
--	--	±15VDC	0.47µF/25V
--	--	±24VDC	0.47µF/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.