

FEATURES:

- Fixed voltage input, unregulated single output, 1W
- Continuous short-circuit protection, self recover
- I/O isolation voltage 3KV
- 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
- SMD 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)		
F0303XT-1WR3	3.3	2.97-3.63	3.3	30	303	77	2400
F0305XT-1WR3			5	20	200	82	2400
F0309XT-1WR3			9	12	111	84	1000
F0312XT-1WR3			12	8	83	84	560
F0315XT-1WR3			15	7	67	84	560
F0324XT-1WR3			24	4	42	84	220
F0503XT-1WR3	5	4.5-5.5	3.3	30	303	74	2400
F0505XT-1WR3			5	20	200	82	2400
F0509XT-1WR3			9	12	111	83	1000
F0512XT-1WR3			12	8	83	83	560
F0515XT-1WR3			15	7	67	83	560
F0524XT-1WR3			24	4	42	85	220
F1203XT-1WR3	12	10.8-13.2	3.3	30	303	76	2400
F1205XT-1WR3			5	20	200	82	2400
F1209XT-1WR3			9	12	111	83	1000
F1212XT-1WR3			12	8	83	83	560
F1215XT-1WR3			15	7	67	83	560
F1224XT-1WR3			24	4	42	85	220
F1505XT-1WR3	15	13.5-16.5	5	20	200	82	2400
F1509XT-1WR3			9	12	111	83	1000
F1515XT-1WR3			15	7	67	83	560
F2403XT-1WR3	24	21.6-26.4	3.3	30	303	76	2400
F2405XT-1WR3			5	20	200	80	2400
F2409XT-1WR3			9	12	111	80	1000
F2412XT-1WR3			12	8	83	80	560
F2415XT-1WR3			15	7	67	80	560
F2424XT-1WR3			24	4	42	80	220

customized accepted ,pls contact sales for details

Input Specifications

Input Filter	Capacitive Filter	
Ctrl	NONE	
	NONE	
Hot Plug	Unavailable	

Output Specifications

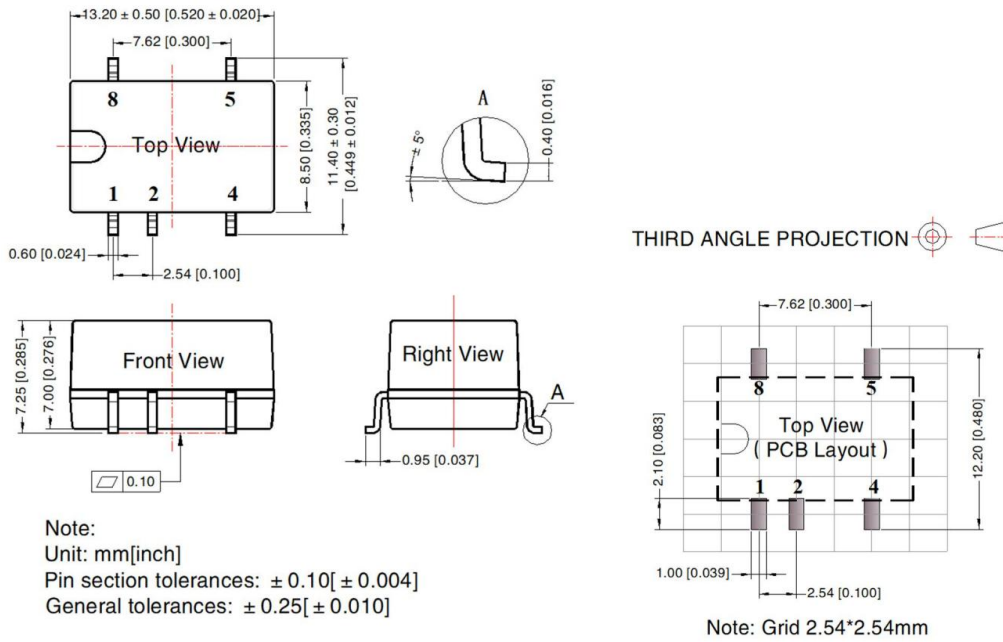
Item	Typ	Max	Test Conditions
Voltage Accuracy	±1%	±3%	input voltage range and load
Line Regulation	±0.2%	±0.5%	Input voltage from low to high voltage, full load
Load Regulation	±0.5%	±1%	10% to 100% full load
Ripple&Noise	50mVp-p	150mVp-p	20MHz Bandwidth, full load

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.

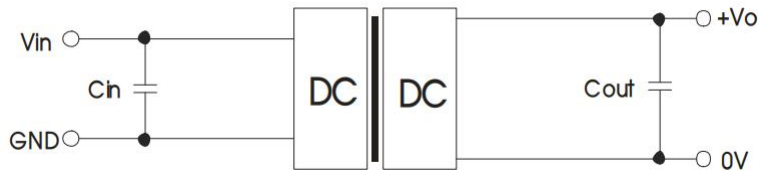
Dimensions and Recommended Layout



Pins

Pin	Mark		
1	GND		
2	Vin		
4	0V		
5	+Vo		
8	NC		

Recommended Circuit



Recommended input and output capacitor values

Vin	Cin	Vout	Cout	
3.3VDC	4.7uF/16V	3.3/5VDC	10uF/16V	
5VDC	4.7uF/16V	9VDC	2.2uF/16V	
12VDC	2.2uF/25V	12VDC	2.2uF/25V	
15VDC	2.2uF/25V	15VDC	1uF/25V	
24VDC	1uF/50V	24VDC	1uF/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.