

FEATURES:

- Fixed voltage input, unregulated single output, 1W
- Continuous short-circuit protection, self recover
- I/O isolation voltage 3KV
- 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

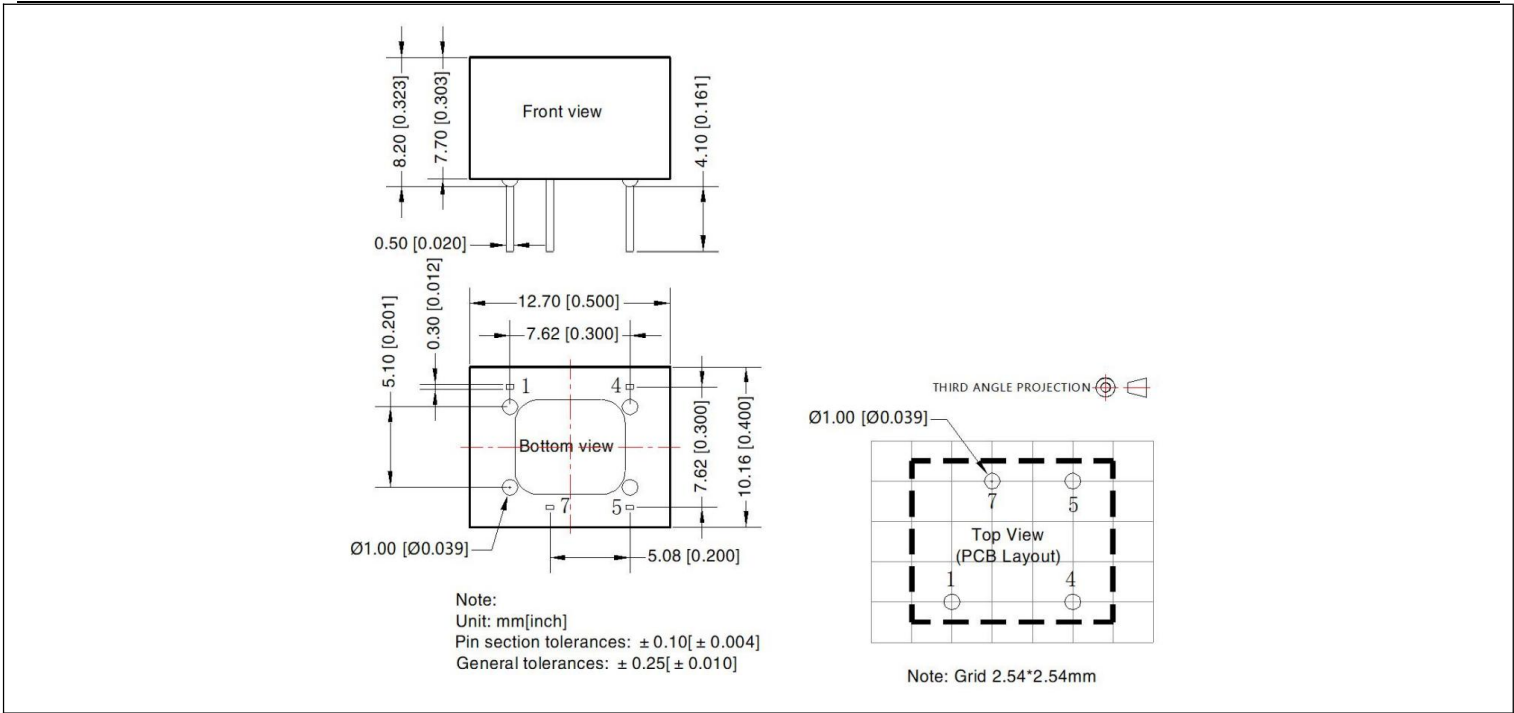
Part No.	INPUT		OUTPUT			Full Load Efficiency (%/Typ)	Capacitive Load (μF)
	Normal (Vdc)	Range (Vdc)	Voltage (Vdc)	Min current (mA)	Max current (mA)		
F0303N-1WR3	3	2.97-3.63	3.3	30	303	79	2400
F0305N-1WR3			5	20	200	82	2400
F0503N-1WR3	5	4.5-5.5	3.3	30	303	74	2400
F0505N-1WR3			5	20	200	82	2400
F0507N-1WR3			7.2	13	139	80	1000
F0509N-1WR3			9	12	111	83	1000
F0512N-1WR3			12	9	84	83	560
F0515N-1WR3			15	7	67	83	560
F0524N-1WR3			24	4	42	85	220
F1203N-1WR3	12	10.8-13.2	3.3	30	303	75	2400
F1205N-1WR3			5	20	200	80	2400
F1209N-1WR3			9	12	111	78	1200
F1212N-1WR3			12	9	83	80	560
F1215N-1WR3			15	7	67	81	560
F1224N-1WR3			24	5	42	81	220
F1505N-1WR3	15	13.5-16.5	5	20	200	80	2400
F1509N-1WR3			9	12	111	80	1200
F1515N-1WR3			15	7	67	81	560
F2403N-1WR3	24		3.3	30	303	75	2400
F2405N-1WR3			5	20	200	79	2400
F2409N-1WR3			9	12	111	80	1200
F2412N-1WR3			12	9	83	81	560
F2415N-1WR3			15	7	67	81	560
F2424N-1WR3			24	5	42	81	220

customized accepted ,pls contact sales for details

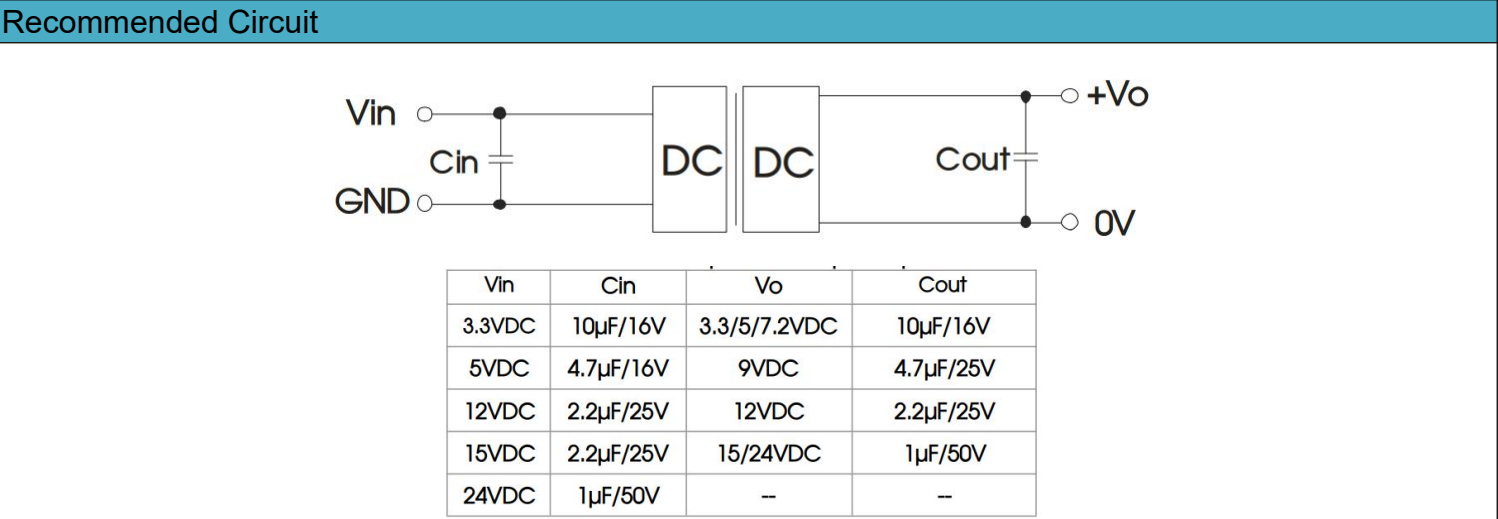
Input Specifications

Input Filter	Capacitive Filter
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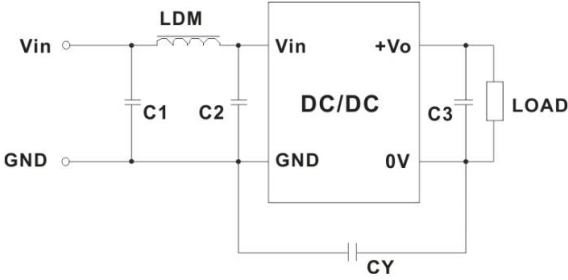
Ctrl	NONE		
	NONE		
Hot Plug	Unavailable		
Output Specifications			
Item	Typ	Max	Test Conditions
Voltage Accuracy	±1%	±3%	input voltage range and load
Line Regulation	±0.2%	±0.5%	Input voltage from low to high voltage, full load
Load Regulation	±0.5%	±1%	10% to 100% full load
Ripple&Noise	50mVp-p	150mVp-p	20MHz Bandwidth, full load
Gernal 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	1.3g（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			



Pins			
Pin	Mark		
1	GND		
4	Vin		
5	+Vo		
7	0V		



EMC Circuit



Input voltage		5VDC		Others
Output voltage		3.3/5/7.2/9VDC	12/15/24VDC	--
Emissions	C1/C2	4.7μF /25V	4.7μF /25V	4.7μF /50V
	CY	100pF/4kVDC	1nF /4kVDC	270pF /4kVDC
	C3	Refer to the Cout in table 1		
	LDM	6.8μH		

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.