

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 V-0 requirements
- DIP package



Selection Guide

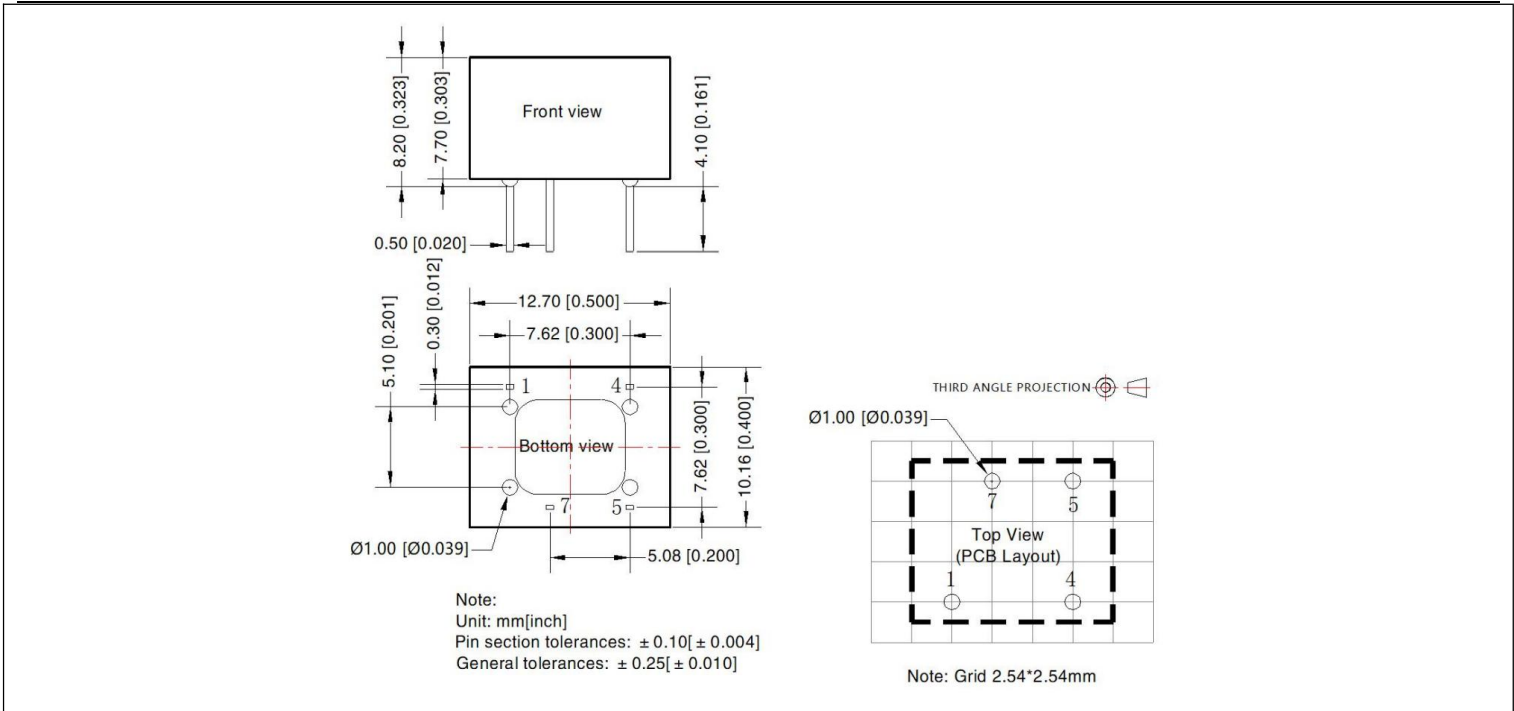
Part No.	INPUT		OUTPUT			Full Load Efficiency (%/Typ)	CapacitiveLoad(μF)
	Normal (Vdc)	Range (Vdc)	Voltage (Vdc)	Min current (mA)	Max current (mA)		
F0303N-1WR3	3	2.97-3.63	3.3	30	303	79	2200
F0305N-1WR3			5	20	200	82	2200
F0503N-1WR3	5	4.5-5.5	3.3	30	303	74	2200
F0505N-1WR3			5	20	200	82	2200
F0507N-1WR3			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	2200
F1205N-1WR3			5	20	200	80	2200
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	2200
F1509N-1WR3			9	12	111	80	1200
F1515N-1WR3			15	7	67	81	560
F2403N-1WR3	24	21.6-26.4	3.3	30	303	75	2200
F2405N-1WR3			5	20	200	79	2200
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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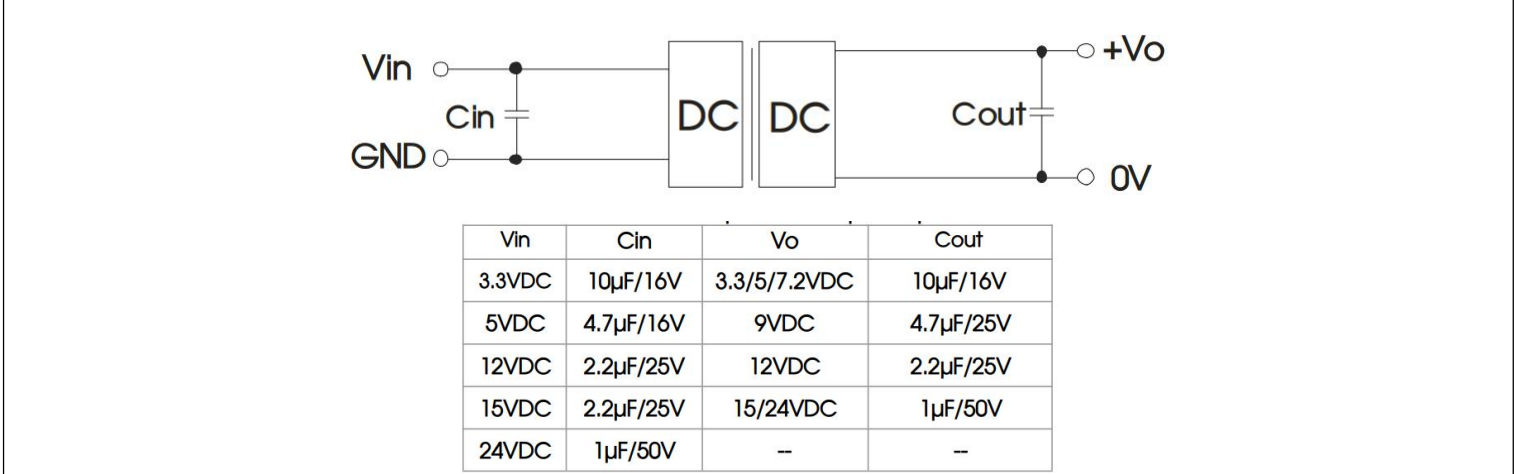
Ctrl		NONE			
		NONE			
Hot Plug		Unavailable			
Output Specifications					
Item		Min	Typ	Max	Test Conditions
Voltage Accuracy		-	-	-	
Line Regulation		-	-	±1.2%	Input voltage ±1%
Load Regulation	3.3Vout	-	15%	18%	10% to 100% full load
	5Vout	-	8%	13%	
	9Vout	-	7%	9%	
	12Vout	-	6%	8%	
	15Vout	-	5%	8%	
	24Vout	-	5%	7%	
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）		3KVDC			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					



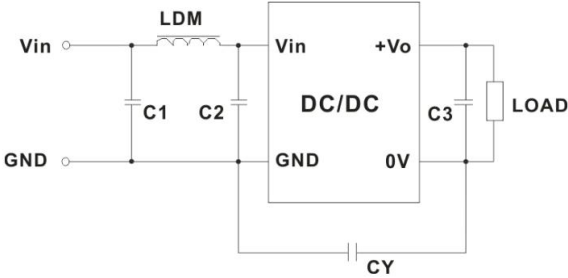
Pins

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

Recommended Circuit



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 /50V
	CY	100pF/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.

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