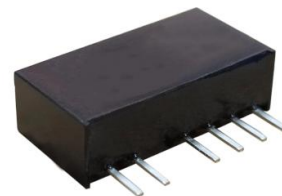


FEATURES:

- Fixed voltage input, single/dual unregulated 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
- SIP 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)		
F030303S-1WR3	3.3	2.97-3.63	3.3/3.3	15/15	152/152	79	1000/1000
F030505S-1WR3			5/5	10/10	100/100	82	1000/1000
F030909S-1WR3			9/9	6/6	56/56	84	470/470
F031212S-1WR3			12/12	4/4	42/42	84	220/220
F031515S-1WR3			15/15	3/3	33/33	84	220/220
F032424S-1WR3			24/24	2/2	21/21	82	100/100
F050303S-1WR3	5	4.5-5.5	3.3/3.3	15/15	152/152	79	1000/1000
F050505S-1WR3			5/5	10/10	100/100	82	1000/1000
F050909S-1WR3			9/9	6/6	56/56	84	470/470
F051212S-1WR3			12/12	4/4	42/42	84	220/220
F051515S-1WR3			15/15	3/3	33/33	84	220/220
F052424S-1WR3			24/24	2/2	21/21	82	100/100
F090303S-1WR3	9	8.1-9.9	3.3/3.3	15/15	152/152	79	1000/1000
F090505S-1WR3			5/5	10/10	100/100	82	1000/1000
F090909S-1WR3			9/9	6/6	56/56	84	470/470
F091212S-1WR3			12/12	4/4	42/42	84	220/220
F091515S-1WR3			15/15	3/3	33/33	84	220/220
F092424S-1WR3			24/24	2/2	21/21	82	100/100
F120303S-1WR3	12	10.8-13.2	3.3/3.3	15/15	152/152	79	1000/1000
F120505S-1WR3			5/5	10/10	100/100	82	1000/1000
F120909S-1WR3			9/9	6/6	56/56	84	470/470
F121212S-1WR3			12/12	4/4	42/42	84	220/220
F121515S-1WR3			15/15	3/3	33/33	84	220/220
F122424S-1WR3			24/24	2/2	21/21	82	100/100
F150303S-1WR3			3.3/3.3	15/15	152/152	79	1000/1000
F150505S-1WR3			5/5	10/10	100/100	82	1000/1000
F150909S-1WR3			9/9	6/6	56/56	84	470/470

F151212S-1WR3	15	13.5-16.5	12/12	4/4	42/42	84	220/220
F151515S-1WR3			15/15	3/3	33/33	84	220/220
F152424S-1WR3			24/24	2/2	21/21	82	100/100
F240303S-1WR3	24	21.6-26.4	3.3/3.3	15/15	152/152	79	1000/1000
F240505S-1WR3			5/5	10/10	100/100	82	1000/1000
F240909S-1WR3			9/9	6/6	56/56	84	470/470
F241212S-1WR3			12/12	4/4	42/42	84	220/220
F241515S-1WR3			15/15	3/3	33/33	84	220/220
F242424S-1WR3			24/24	2/2	21/21	82	100/100

customized accepted,pls contact sales for details

Input Specifications

Input Filter	Capacitive Filter		
Ctrl	NONE		
	NONE		
Hot Plug	Unavailable		

Output Specifications

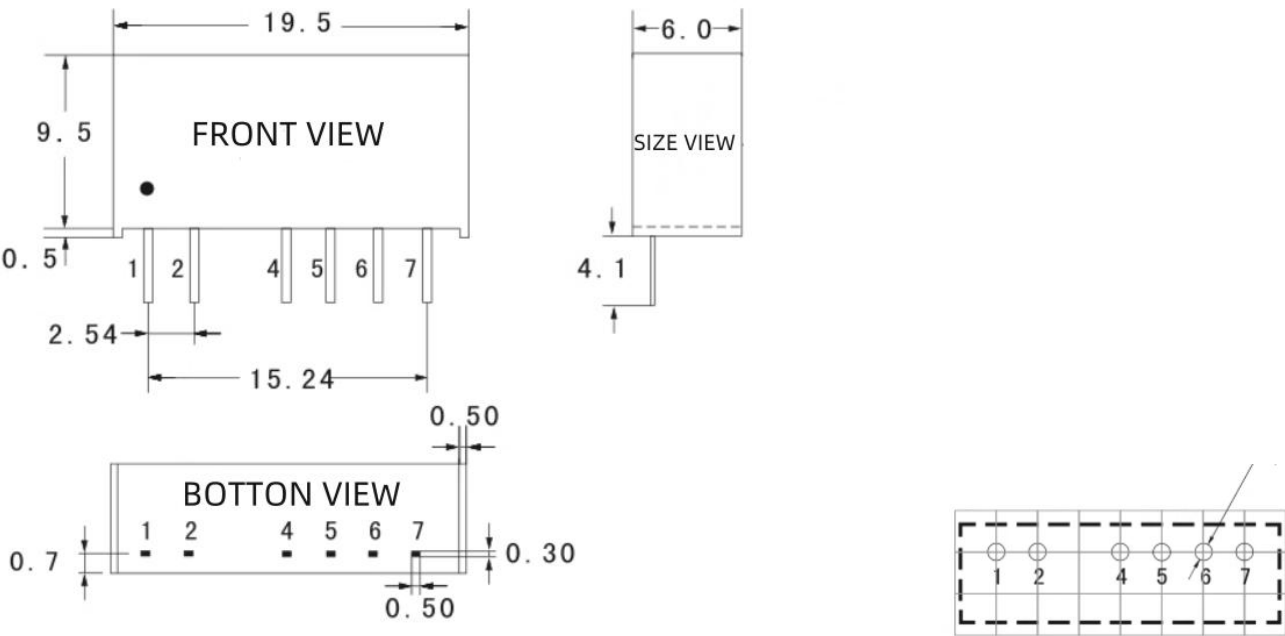
Item		Min	Typ	Max	Test Conditions
Voltage Accuracy		-	-	-	
Line Regulation		-	-	±1.2%	Input voltage ±1%
Load Regulation	3.3/3.3V	-	-	15%	10% to 100% full load
	5/5V	-	-	10%	
	9/9V	-	-	8%	
	12/12V	-	-	6%	
	15/15V	-	-	6%	
	24/24V	-	-	5%	
Ripple&Noise		-	50mVp-p	75mVp-p	20MHz Bandwidth, full load

General 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%RH	Non-condensing
Cooling Method	Free air convection	
Case Material	Black plastic; flame-retardant and heat-resistant (UL94 V-0)	
Weight	1.8g (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

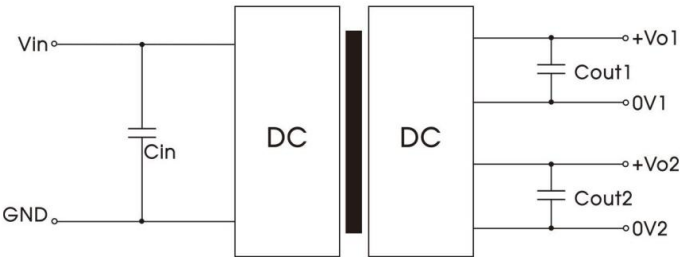


Note:
Unit: mm[inch]
Pin section tolerances: $\pm 0.10[\pm 0.004]$
General tolerances: $\pm 0.25[\pm 0.010]$

Pin-out

Pin			
1	+Vin		
2	-Vin		
4	0V1		
5	+Vo1		
6	0V2		
7	+Vo2		

Recommended Circuit



Vin	Cin	Vout	Cout
3.3/5VDC	4.7uF/16VDC	3.3/3/3,5/5VDC	10uF/10V
9/12/15VDC	2.2uF/25VDC	9/9,12/12,15/15VDC	4.7uF/25V
24VDC	1uF/50VDC	24VDC	1uF/50VDC

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.