

FEATURES:

- Fixed voltage input,unregulated output,3W
- Continuous short-circuit protection,self recover
- I/O isolation voltage 1.5KV
- 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
- SIP package



Selection Guide

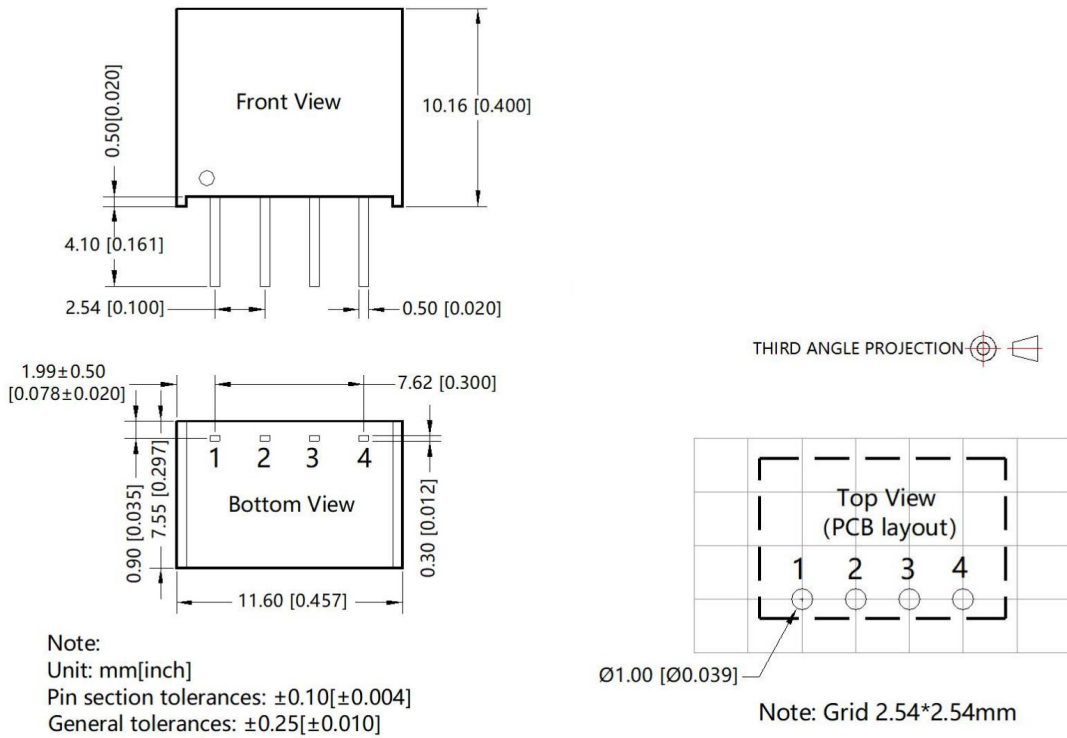
Part No.	INPUT		OUTPUT			Full Load Efficiency (%/Typ)	CapacitiveLoad(μF)
	Normal (Vdc)	Range (Vdc)	Voltage (Vdc)	Min current (mA)	Max current (mA)		
B0503M-3WR3	5	4.5-5.5	3.3	50	500	79	2400
B0505M-3WR3			5	60	600	85	2400
B0509M-3WR3			9	33	333	85	1000
B0512M-3WR3			12	25	250	85	560
B0515M-3WR3			15	20	200	86	560
B0524S-3WR3			24	13	125	86	220
B1203M-3WR3	12	10.8-13.2	3.3	50	500	79	2400
B1205M-3WR3			5	60	600	85	2400
B1209M-3WR3			9	33	333	85	1000
B1212M-3WR3			12	25	250	85	560
B1215M-3WR3			15	20	200	86	560
B1224M-3WR3			24	13	125	86	220
B1503M-3WR3	15	13.5-16.5	3.3	50	500	79	2400
B1505M-3WR3			5	60	600	85	2400
B1509M-3WR3			9	33	333	85	1000
B1512M-3WR3			12	25	250	85	560
B1515M-3WR3			15	20	200	86	560
B1524M-3WR3			24	13	125	86	220
B2403M-3WR3	24	21.6-26.4	3.3	50	500	79	2400
B2405M-3WR3			5	60	600	85	2400
B2409M-3WR3			9	33	333	85	1000
B2412M-3WR3			12	25	250	85	560
B2415M-3WR3			15	20	200	86	560
B2424M-3WR3			24	13	125	86	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%	10% to 100% full load
	5Vout	-	-	7%	
	9Vout	-	-	5%	
	12Vout	-	-	5%	
	15Vout	-	-	4%	
	24Vout	-	-	3%	
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°C (Typ)			
Temperature Coefficient		0.02%/°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		2g (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		
3	0V		
4	+Vo		

Recommended Circuit



Recommended input and output capacitor values

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

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