

FEATURES:

- Fixed voltage input,single/dual unregulated output,0.25W
- Continuous short-circuit protection,self recover
- I/O isolation voltage 1.5KV
- 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

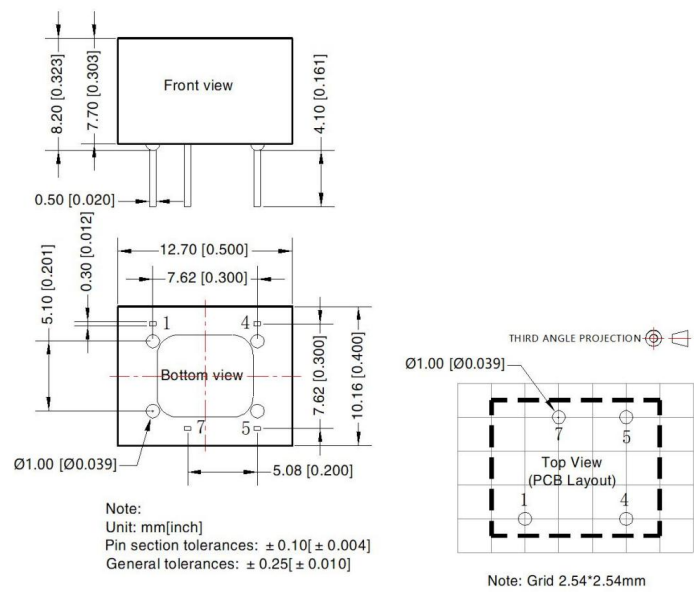


Selection Guide

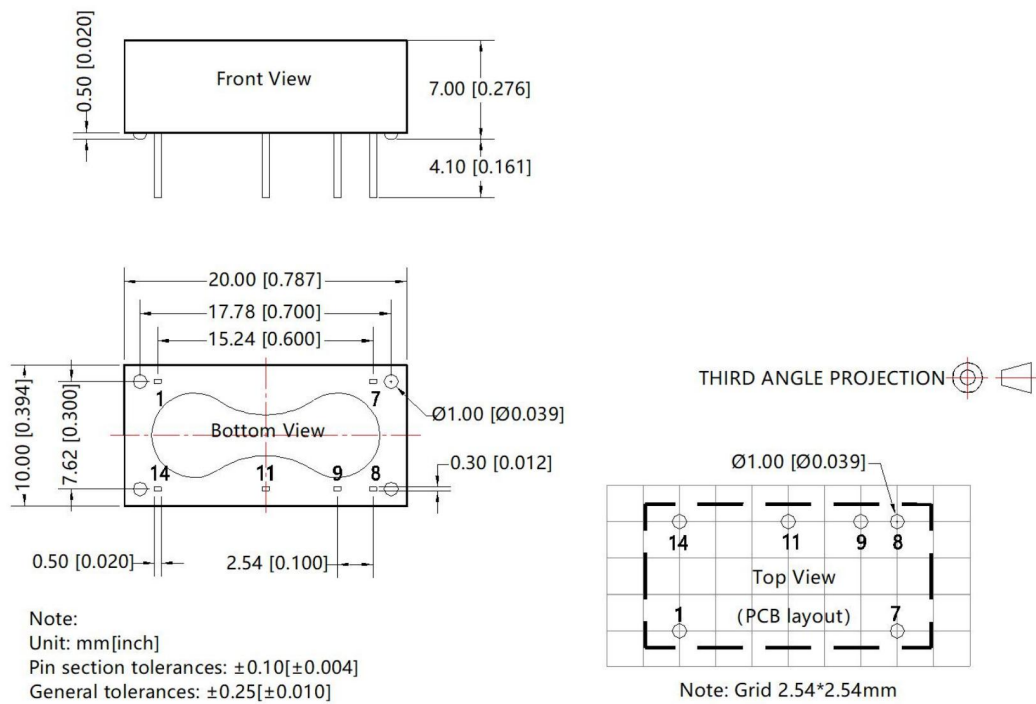
Part No.	INPUT		OUTPUT			Full Load Efficiency (%/Typ)	CapacitiveLoad(μF)
	Normal (Vdc)	Range (Vdc)	Voltage (Vdc)	Min current (mA)	Max current (mA)		
B0303D-W25R3	3	3.0-3.6	3.3		76	62	
B0305D-W25R3			5		50	65	
A0505D-W25R3	5	4.5-5.5	±5		±25	62	
A0509D-W25R3			±9		±10.8	64	
A0512D-W25R3			±12		±10.4	66	
A0515D-W25R3			±15		±8.3	65	
B0505D-W25R3			5		50	64	
B0509D-W25R3			9		27.8	65	
B0512D-W25R3			12		20.8	67	
B0515D-W25R3			15		16.7	65	
A1205D-W25R3	12	10.8-13.2	±5		±25	62	
A1209D-W25R3			±9		±10.8	63	
A1212D-W25R3			±12		±10.4	64	
A1215D-W25R3			±15		±8.3	65	
B1203D-W25R3			3.3		76	62	
B1205D-W25R3			5		50	65	
B1209D-W25R3			9		27.8	66	
B1212D-W25R3			12		20.8	67	
B1215D-W25R3			15		16.7	66	
A2405D-W25R3	24	21.6-26.4	±5		±25	63	
A2409D-W25R3			±9		±10.8	64	
A2412D-W25R3			±12		±10.4	65	
A2415D-W25R3			±15		±8.3	65	
B1205D-W25R3			5		50	63	
B1209D-W25R3			9		27.8	63	
B1212D-W25R3			12		20.8	65	
B1215D-W25R3			15		16.7	65	

B2424D-W25R3				24		10.4	64	
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	3.3V,±3.3Vout	-	-	15%	10% to 100% full load			
	5V,±5Vout	-	-	10%				
	9V,±9Vout	-	-	8%				
	12V,±12Vout	-	-	6%				
	15V,±15Vout	-	-	6%				
	24V,±24Vout	-	-	5%				
Ripple&Noise			-	50mVp-p	75mVp-p	20MHz Bandwidth, full load		
Gernerall 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）			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								

B_D-W25R3



A_D-W25R3



Pin-out			
B_D-W25R3		A_D-W25R3	
1	GND	1	GND
4	Vin	7	NC
5	+Vo	8	0V
7	0V	9	+Vo
		11	-Vo
		14	Vin

Recommended Circuit

Recommended input and output capacitor values

Vin	Cin	Vout	Cout	
5V	4.7uF/16V	±3.3/±5VDC	4.7uF/16V	
-	-	±9/±12VDC	1uF/25V	
-	-	±15VDC	0.47uF/50V	
12VDC	2.2uF/25V	±5/9VDC	4.7uF/16V	
15VDC	2.2uF/25V	±12/15VDC	1uF/25V	
24VDC	1uF/50V	±24VDC	0.47uF/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.