

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°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
- DIP package

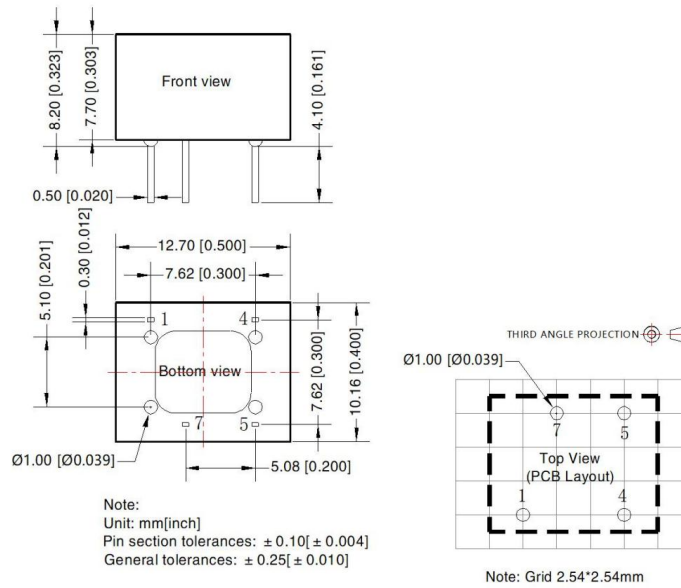
Selection Guide

Part No.	INPUT		OUTPUT			Full Load Efficiency (%/Typ)	Capacitive Load(μF)		
	Normal (Vdc)	Range (Vdc)	Voltage (Vdc)	Min current (mA)	Max current (mA)				
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			

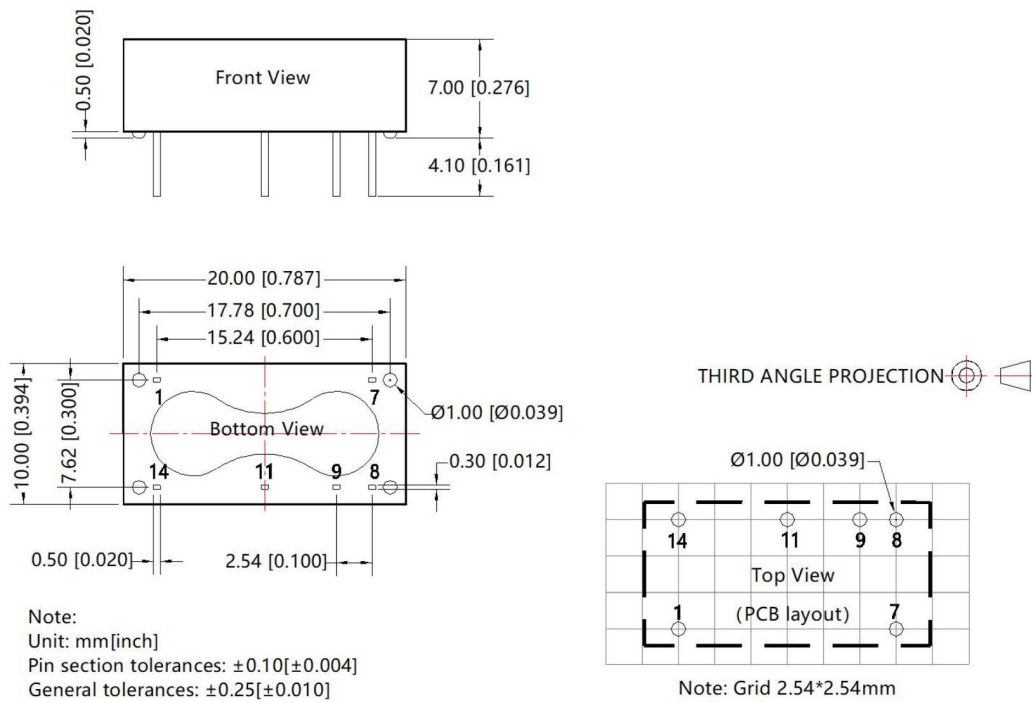
B2424D-W25R3		24	10.4	64	
customized accepted ,pls contact sales for details					
Input Specifications					
Input Filter	Capacitive Filter				
Ctrl	NONE				
	NONE				
Hot Plug	Unavailable				
Output Specifications					
Item	Typ	Max	Test Conditions		
Voltage Accuracy	±1%	±3%	input voltage range and load		
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		
General Specifications					
Switching Frequency	300KHz(Typ)		100% full load, nominal input voltage		
Short-Circuit Protection	Continuous, self-recovery				
Case Temperature Rise	15°C (Typ)				
Temperature Coefficient	0.03%/°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	1.3g (Typ)				
**Unless specified, otherwise all other parameters are tested under the following conditions: nominal input voltage, pure resistive load, 25°C room temperature environment.					
Temperature derating Curve					

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	$\pm 3.3/\pm 5$ VDC	4.7uF/16V
-	-	$\pm 9/\pm 12$ VDC	1uF/25V
-	-	± 15 VDC	0.47uF/50V
12VDC	2.2uF/25V	$\pm 5/9$ VDC	4.7uF/16V
15VDC	2.2uF/25V	$\pm 12/15$ VDC	1uF/25V
24VDC	1uF/50V	± 24 VDC	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.