

FEATURES:

- Wide input range
- 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≥2 million hours)
- Industry standard pin-out
- Metal case
- DIP package

Selection Guide

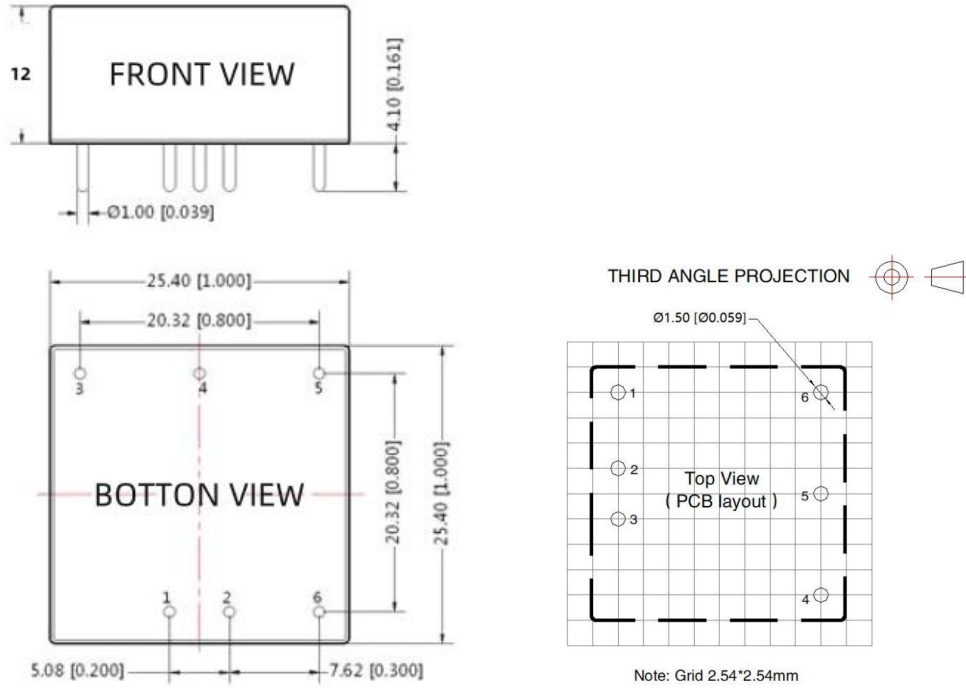
Part No.	INPUT		OUTPUT			Full Load Efficiency (%) / Typ.	Capacitive Load (μF)
	Normal (Vdc)	Range (Vdc)	Voltage (V1dc)	Current Min (mA)	Current Max (mA)		
VRA0505YMD-10WR3	5	4.5-9	±5	0	±1000	78	1000
VRA0512YMD-10WR3			±12	0	±417	83	470
VRA0515YMD-10WR3			±15	0	±334	84	334
VRA0524YMD-10WR3			±24	0	±209	83	100
VRB0503YMD-10WR3			3.3	0	2500	84	470
VRB0505YMD-10WR3			5	0	2000	85	470
VRB0512YMD-10WR3			12	0	834	83	470
VRB0515YMD-10WR3			15	0	667	84	330
VRB0524YMD-10WR3			24	0	417	83	100
VRB1205YMD-10WR3			12	9-18	5	0	2000
VRB1212YMD-10WR3	12	0			833	87	470
VRB1215YMD-10WR3	15	0			667	87	330
VRB1224YMD-10WR3	24	0			416	88	100
VRB2405YMD-10WR3	24	18-36	5	0	2000	82	2200
VRB2412YMD-10WR3			12	0	833	87	470
VRB2415YMD-10WR3			15	0	667	87	330
VRB2424YMD-10WR3			24	0	416	88	100
VRB4803YMD-10WR3	48	36-72	3.3	0	2400	79	2200
VRB4805YMD-10WR3			5	0	2000	83	2200
VRB4812YMD-10WR3			12	0	833	87	470
VRB4815YMD-10WR3			15	0	667	87	330
VRB4824YMD-10WR3			24	0	416	88	100

customized accepted, pls contact sales for details

Input Specifications

Input Voltage Range	Input Voltage Range (Vdc)	Nom (Vdc)	Max (Vdc)
	4.5-9	5	9
	9-18	12	18

	18-36	24	36
	36-72	48	72
Input Filter	Capacitive Filter		
Ctrl	NONE		
	NONE		
Hot Plug	Unavailable		
Output Specifications			
Item	Typ	Max	Test Conditions
Voltage Accuracy	±1%	±3%	5%-100% load
No-load Output Voltage Accuracy	±1.5%	±5%	Input voltage range
Balance Of Output Voltage	±0.5%	±1%	Dual output, balanced load
Line Regulation	±0.2%	±0.5%	Input voltage variation from low to high at full load
Load Regulation	±0.2%	±0.5%	5%-100% load
Ripple&Noise	100mVp-p	120mVp-p	24Vout
	50	80	Others
General Specifications			
Switching Frequency	200KHz(Typ)	100% full load, nominal input voltage	
Short-Circuit Protection	Continuous, self-recovery		
Case Temperature Rise	25°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	Aluminum alloy		
Weight	14g (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			

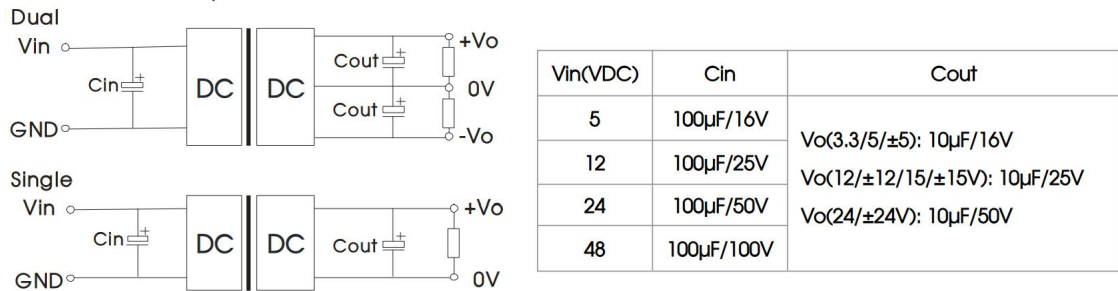


Unit:mm(inch)

Pins

Pin	Single	Dual	
1	CTRL	CTRL	
2	GND	GND	
3	Vin	Vin	
4	+Vo	+Vo	
5	No Pin	0V	
6	0V	-Vo	

Recommended Circuit



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.