FEATURES：

- Wide input range
- 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:2X10^{5}Hrs)
- Industry standard pin-out
- DIP package

Selection Guide

Part No.	INPUT		OUTPUT			Full Load Efficiency (%)/Typ.	Capacitive Load(μF)
	Norminal (Vdc)	Range (Vdc)	Voltage (V1dc)	Current Min(mA)	Current Max(mA)		
VRB1205YMD-15WR3	12	9-18	5	0	3000	0	2000
VRB1212YMD-15WR3			12	0	1250	0	680
VRB1215YMD-15WR3			15	0	1000	0	470
VRB1224YMD-15WR3			24	0	650	0	330
VRA1205YMD-15WR3			+5	+1500	-5	-1500	1000
VRA1212YMD-15WR3			+12	+625	-12	-625	330
VRA1215YMD-15WR3			+15	+500	-15	-500	220
VRA1224YMD-15WR3			+24	+310	-24	-310	150
VRB2405YMD-15WR3	24	18-36	5	0	3000	0	2000
VRB2412YMD-15WR3			12	0	1250	0	680
VRB2415YMD-15WR3			15	0	1000	0	470
VRB2424YMD-15WR3			24	0	650	0	330
VRA2405YMD-15WR3			+5	+1500	-5	-1500	1000
VRA2412YMD-15WR3			+12	+625	-12	-625	330
VRA2415YMD-15WR3			+15	+500	-15	-500	220
VRA2424YMD-15WR3			+24	+310	-24	-310	150
VRB4805YMD-15WR3	48	36-72	5	0	3000	0	2000
VRB4812YMD-15WR3			12	0	1250	0	680
VRB4815YMD-15WR3			15	0	1000	0	470
VRB4824YMD-15WR3			24	0	650	0	330
VRA4805YMD-15WR3			+5	+1500	-5	-1500	1000
VRA4812YMD-15WR3			+12	+625	-12	-625	330
VRA4815YMD-15WR3			+15	+500	-15	-500	220
VRA4824YMD-15WR3			+24	+310	-24	-310	150

customized accepted ,pls contact sales for details

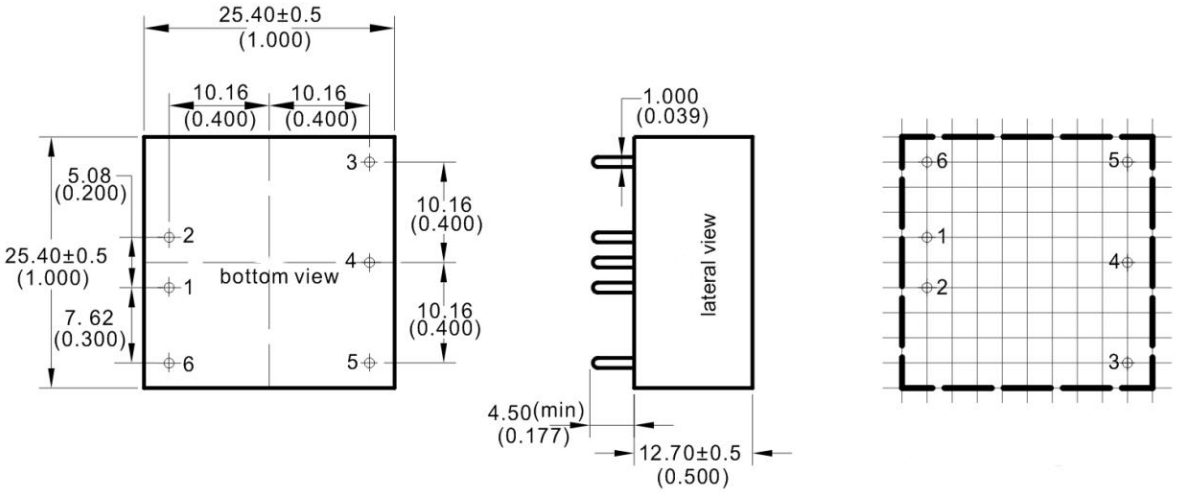
Input Specifications

Input Filter	Capacitive Filter	
Ctrl	NONE	

	NONE		
Hot Plug	Unavailable		
Output Specifications			
Item	Typ	Max	Test Conditions
Voltage Accuracy	±1%	±2%	5%-100% load
Line Regulation	±0.2%	±0.5%	Input voltage variation from low to high at full load
Load Regulation	±0.5%	±1%	5%-100% load
Startup delay time	50ms	-	
Ripple&Noise	60mVp-p	80mVp-p	20MHz Bandwidth, full load
Gerneral Specifications			
Switching Frequency	280KHz(Typ)		100% full load, nominal input voltage
Short-Circuit Protection	Continuous, self-recovery		
Isolation（Input-Output）	1.5KVDC		Input-output electric strength test for 1 minute with a leakage current
Operating Temperature	-40～+105℃		
Storage Temperature	-55～+125℃		
Storage Humidity	<95%RH		Non-condensing
Cooling Method	Free air convection		
Case Material	Aluminum alloy		
Weight	20g（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



Pins

Pin	Single	Dual	
1	-Vin	-Vin	
2	+Vin	+Vin	

3	+Vo	+Vo	
4	TRIM	COM	
5	-Vo	-Vo	
6	CTRL	CTRL	

Recommended Circuit

Vin (VDC)	Vout (VDC)	Cin	Cout
12	3.3/5	100μF/50V	100μF/16V
	12/15		100μF/25V
	24		47μF/50V
24	3.3/5	100μF/50V	100μF/16V
	12/15		100μF/25V
	24		47μF/50V
48	3.3/5	100μF/100V	100μF/16V
	12/15		100μF/25V
	24		47μF/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.