

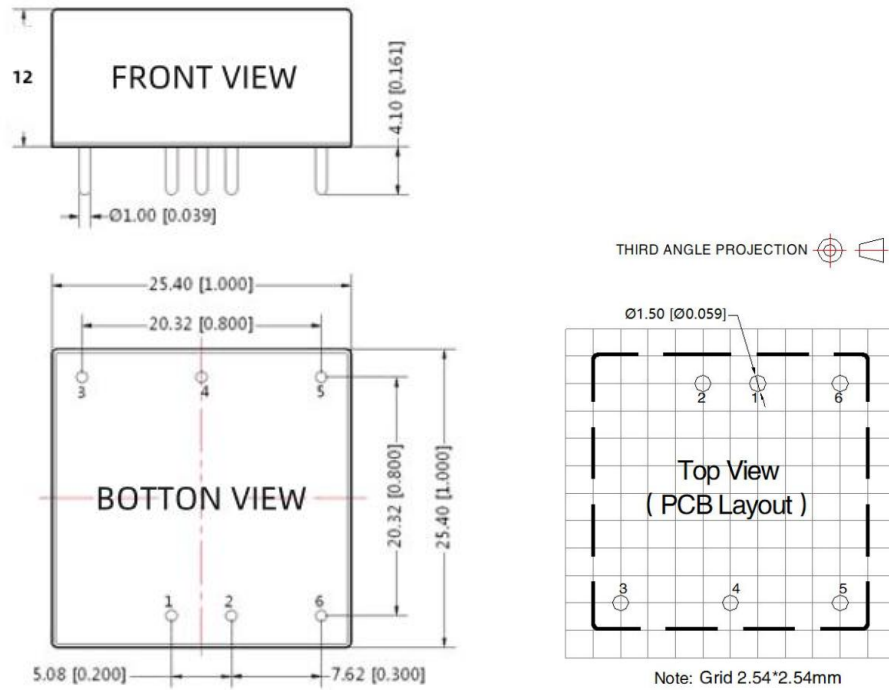
FEATURES:

- Wide input range
- Continuous short-circuit protection, self recover
- I/O isolation voltage 1.5KV
- Working temperature: -40°C~+85°C
- No additional components required
- Stable performance and high reliability (MTBF≥1000K hours)
- Industry standard pin-out
- Metal case
- DIP package

Selection Guide

Part No.	INPUT		OUTPUT				CapacitiveLoad(μF)
	Norminal (Vdc)	Range (Vdc)	Voltage (V1dc)	current (mA)	Voltage (V2dc)	current (mA)	
URA2405YMD-10WR3	24	9-36	±5	0	±1000	83	1000
URA2409YMD-10WR3			±9	0	±555	86	680
URA2412YMD-10WR3			±12	0	±416	87	470
URA2415YMD-10WR3			±15	0	±333	87	330
URA2424YMD-10WR3			±24	0	±208	87	100
URB2403YMD-10WR3			3.3	0	2400	77	2200
URB2405YMD-10WR3			5	0	2000	82	2200
URB2409YMD-10WR3			9	0	1111	85	680
URB2412YMD-10WR3			12	0	833	86	470
URB2415YMD-10WR3			15	0	667	86	330
URB2424YMD-10WR3			24	0	416	88	100
URA4805YMD-10WR3			48	18-72	±5	0	±1000
URA4812YMD-10WR3	±12	0			±416	87	470
URA4815YMD-10WR3	±15	0			±333	87	330
URA4824YMD-10WR3	±24	0			±208	87	100
URB4803YMD-10WR3	3.3	0			2400	79	2200
URB4805YMD-10WR3	5	0			2000	83	2200
URB4812YMD-10WR3	12	0			833	87	470
URB4815YMD-10WR3	15	0			667	87	330
URB4824YMD-10WR3	24	0			416	88	100
URA1D05YMD-10WR3	110	40-160			±5	0	±1000
URA1D12YMD-10WR3			±12	0	±416	87	470
URA1D15YMD-10WR3			±15	0	±333	87	330
URA1D24YMD-10WR3			±24	0	±208	87	100
URB1D03YMD-10WR3			3.3	0	2400	79	2200
URB1D05YMD-10WR3			5	0	2000	83	2200
URB1D12YMD-10WR3			12	0	833	87	470
URB1D15YMD-10WR3			15	0	667	87	330

URB1D24YMD-10WR3		24	0	416	88	100
customized accepted,pls contact sales for details						
Input Specifications						
Input Voltage	Input Voltage Range (Vdc)	Nom(Vdc)		Max (Vdc)		
	9-36	24		36		
	18-72	48		72		
	40-160	110		160		
Hot Plug	Unavailable					
Output Specifications						
Item	Typ	Max	Test Conditions			
Voltage Accuracy	±1%	±3%	0-100% 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			
Ripple&Noise	-	100mVp-p	20MHz bandwidth, 5%-100% load			
Transient Recovery Time	300µs	500µs	25% load step change, Nominal input voltage			
Over-voltage Protection	-	160%Vo	110%Vo(Min)			
Over-current Protection	140%Io	190%Io	110%Io(Min)			
Short-circuit Protection			Continuous, self-recovery			
General Specifications						
Switching Frequency	300KHz(Typ)		PWM mode			
MTBF	1000 K hours		MIL-HDBK-217F@25°C			
Temperature Coefficient	0.03%/°C		100% full load			
Isolation (Input-Output)	1.5KVDC					
Insulation Resistance	1000MΩ		Input-output resistance 500Vdc			
Operating Temperature	-40~+85°C					
Storage Temperature	-55~+125°C					
Storage Humidity	5-95%		Non-condensing			
Cooling Method	Free air convection					
Case Material	Aluminum alloy					
Weight	60g (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						

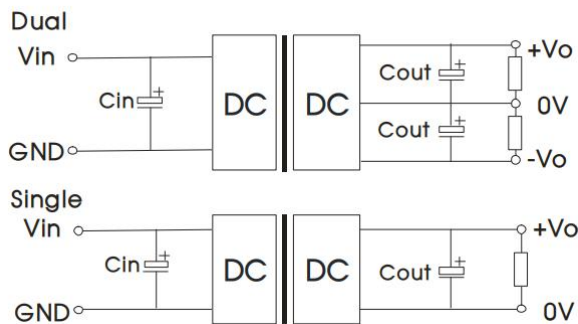


Unit:mm(inch)

Pins

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

Recommended Circuit



Vin(VDC)	Vout(VDC)	Cin	Cout
24	3.3/5/±5	100µF/50V	10µF/16V
	9/12/15/±9/±12/±15		10µF/25V
	24/±24		10µF/50V
48	3.3/5/±5	10µF - 47µF/100V	10µF/16V
	9/12/15/±9/±12/±15		10µF/25V
	24/±24		10µF/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.