

FEATURES:

- Wide input range
- Continuous short-circuit protection, self recover
- I/O isolation voltage 1.5KV
- Working temperature: -40℃~+85℃
- No additional components required
- Stable performance and high reliability (MTBF≥1000K hours)
- Industry standard pin-out
- Flame-retardant case to meet UL94-V0 requirements
- DIP package

Selection Guide

Part No.	INPUT		OUTPUT				CapacitiveLoad(μF)
	Norminal (Vdc)	Range (Vdc)	Voltage (V1dc)	current (mA)	Voltage (V2dc)	current (mA)	
URB2403YMD-20WR3	24	9-36	3.3	0	5000	88	10000
URB2405YMD-20WR3			5	0	4000	90	10000
URB2406YMD-20WR3			6	0	3333	89	10000
URB2412YMD-20WR3			12	0	1667	90	1600
URB2415YMD-20WR3			15	0	1333	89	1000
URB2424YMD-20WR3			24	0	833	91	500
URB4803YMD-20WR3	48	18-72	3.3	0	5000	88	10000
URB4805YMD-20WR3			5	0	4000	90	10000
URB4812YMD-20WR3			12	0	1667	91	1600
URB4815YMD-20WR3			15	0	1333	91	1000
URB4824YMD-20WR3			24	0	833	91	500
URB1D05YMD-20WR3	110	40-160	5	0	4000	90	10000
URB1D12YMD-20WR3			12	0	1667	91	1600
URB1D15YMD-20WR3			15	0	1333	91	1000
URB1D24YMD-20WR3			24	0	833	91	500

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

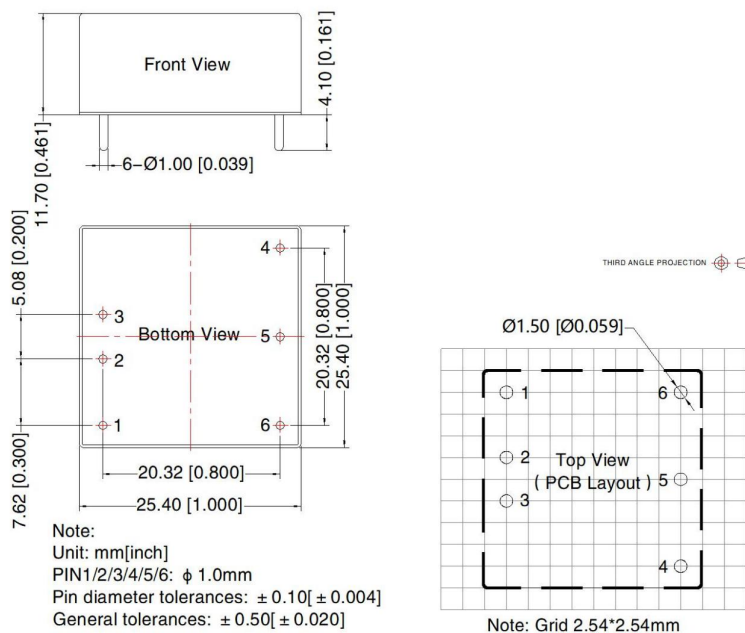
Load Regulation	±0.5%	±1%	5%-100% load
Ripple&Noise	-	100mVp-p	20MHz bandwidth, 5%-100% load
Transient Recovery Time	300µs	500µs	25% load step change, Nominal input voltage
Over-voltage Protection	-	160%Vo	110%Vo(Min)
Over-current Protection	140%Io	190%Io	110%Io(Min)
Short-circuit Protection			Continuous, 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



Pins

Pin	Single		
1	CTRL		
2	GND		
3	Vin		

4	+Vo		
5	TRIM		
6	0V		

Recommended Circuit



Vin (VDC)	Vout (VDC)	Cin	Cout
24	3.3/5/6	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.