

FEATURES:

- Wide input range
- Continuous short-circuit protection, self recover
- I/O isolation voltage 2250V
- Working temperature: -40℃~+85℃
- 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				Capacitive Load(μF)
	Normal (Vdc)	Range (Vdc)	Voltage (V1dc)	current (mA)	Voltage (V2dc)	current (mA)	
URA2405YMD-6WR3	24	9-36	±5	0	±600	83	470
URA2412YMD-6WR3			±12	0	±250	87	100
URA2415YMD-6WR3			±15	0	±200	85	100
URA2424YMD-6WR3			±24	0	±125	87	100
URB2403YMD-6WR3			3.3	0	1500	77	1800
URB2405YMD-6WR3			5	0	1200	82	1000
URB2409YMD-6WR3			9	0	667	84	680
URB2412YMD-6WR3			12	0	500	85	470
URB2415YMD-6WR3			15	0	400	86	220
URB2424YMD-6WR3			24	0	250	86	100
URA4805YMD-6WR3	48	18-72	±5	0	±600	83	470
URA4812YMD-6WR3			±12	0	±250	87	100
URA4815YMD-6WR3			±15	0	±200	88	100
URB4803YMD-6WR3			3.3	0	1500	79	1800
URB4805YMD-6WR3			5	0	1200	83	1000
URB4812YMD-6WR3			12	0	500	87	470
URB4815YMD-6WR3			15	0	400	88	220
URB4824YMD-6WR3			24	0	250	88	100
URA1D05YMD-6WR3	110	40-160	±5	0	±600	83	470
URA1D12YMD-6WR3			±12	0	±250	87	100
URA1D15YMD-6WR3			±15	0	±200	88	100
URB1D03YMD-6WR3			3.3	0	1500	79	1800
URB1D05YMD-6WR3			5	0	1200	83	1000
URB1D12YMD-6WR3			12	0	500	87	470
URB1D15YMD-6WR3			15	0	400	88	220
URB1D24YMD-6WR3			24	0	250	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

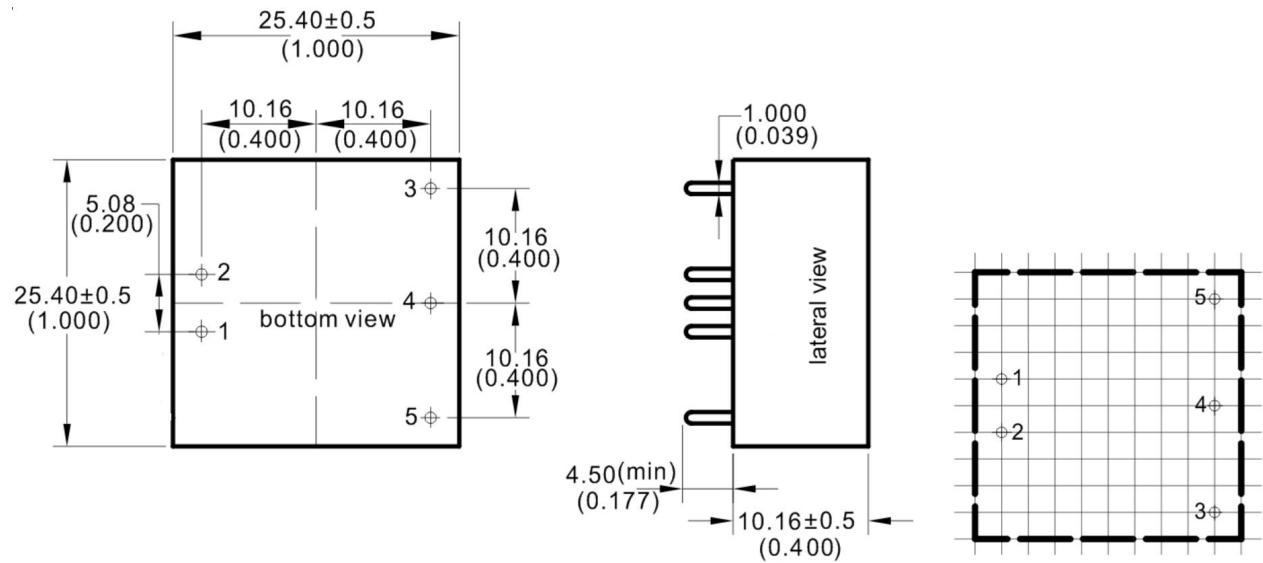
Item	Typ	Max	Test Conditions
Voltage Accuracy	±1%	±3%	0-100% load
Line Regulation	±0.2%	±0.5%	Input voltage variation from low to high at full load
Load Regulation	±0.5%	±1%	5%-100% load
Ripple&Noise	-	100mVp-p	20MHz bandwidth, 5%-100% load
Transient Recovery Time	300μs	500μs	25% load step change, Nominal 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℃
Temperature Coefficient	0.03%/℃	100% full load
Isolation (Input-Output)	2250VDC	
Insulation Resistance	1000MΩ	Input-output resistance 500Vdc
Operating Temperature	-40~+85℃	
Storage Temperature	-55~+125℃	
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℃ room temperature environment.

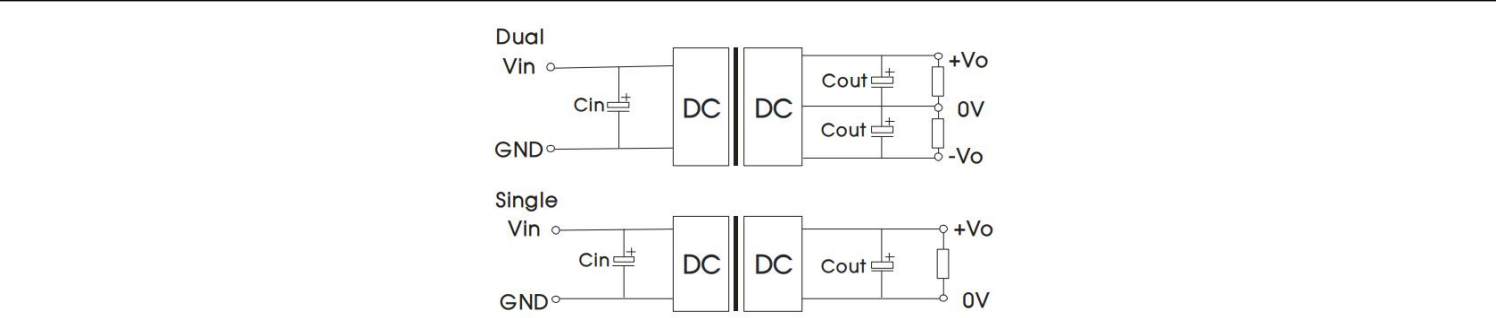
Dimensions and Recommended Layout



Unit:mm(inch)
Pin diameter tolerances: ± 0.10 mm
General tolerances: ± 0.25 mm

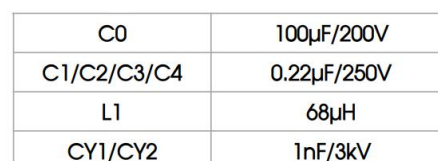
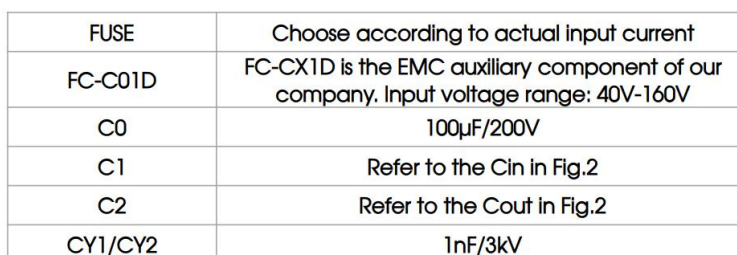
Pins			
Pin	Single	Dual	
1	GND	GND	
2	Vin	Vin	
3	+Vo	+Vo	
4	No Pin	COM	
5	-Vo	-Vo	

Recommended Circuit



Vin(VDC)	Cin	Cout
24	100μF/50V	10μF/50V
48	10 μF- 47μF/100V	10μF/50V

EMC compliance circuit



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.