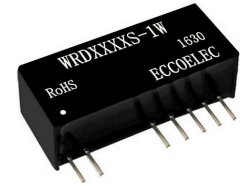


FEATURES:

- Wide input range
- Continuous short-circuit protection, self recover
- I/O isolation voltage 1.5KV
- Working temperature: $-40^{\circ}\text{C}\sim+105^{\circ}\text{C}$
- No additional components required
- Stable performance and high reliability (MTBF \geq 3500K hours)
- Industry standard pin-out
- Flame-retardant case to meet UL94-V0 requirements
- SIP package



Selection Guide

Part No.	INPUT		OUTPUT			Full Load Efficiency (%/Typ)	Capacitive Load(μF)
	Normal (Vdc)	Range (Vdc)	Voltage (Vdc)	Min current (mA)	Max current (mA)		
WRD050505S-1W	5	4.5-9	5	10	100	70	470
WRD050909S-1W			9	5	55	71	330
WRD051212S-1W			12	4	42	73	220
WRD051515S-1W			15	3	33	72	100
WRD120505S-1W	12	9-18	5	10	100	73	470
WRD120909S-1W			9	5	55	76	330
WRD121212S-1W			12	4	42	78	220
WRD121515S-1W			15	3	33	78	100
WRD120512S-1W			5/12	5/2	100/42	80	330
WRD240505S-1W	24	18-36	5	10	100	76	470
WRD240909S-1W			9	5	55	77	330
WRD241212S-1W			12	4	42	78	220
WRD241515S-1W			15	3	33	77	100
WRD480505S-1W	48	36-72	5	10	100	73	470
WRD480909S-1W			9	5	55	75	330
WRD481212S-1W			12	4	42	77	220
WRD481515S-1W			15	3	33	77	100

customized accepted ,pls contact sales for details

Output Specifications

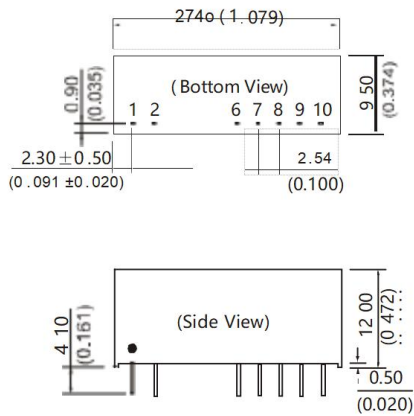
Item	Typ	Max	Test Conditions
Positive voltage accuracy	$\pm 1\%$	$\pm 3\%$	
Negative voltage accuracy	$\pm 3\%$	$\pm 5\%$	
Load Regulation	$\pm 0.5\%$	$\pm 1\%$	10%-100% load
Line regulation	$\pm 0.2\%$	$\pm 0.5\%$	Input voltage from low to high
Temperature drift (Vout)		$\pm 0.03\%/^{\circ}\text{C}$	
Ripple&Noise	50mVp-p	100mVp-p	20MHz bandwidth, 5%-100% load

General Specifications

Switching Frequency	300KHz(Typ)	100% full load, nominal input voltage
Short-Circuit Protection	Continuous, self-recovery	
Case Temperature Rise	15°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)	1.6KVDC	Input-output Electric Strength test for 1 minute with a leakage current of 1mA max.
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	Black plastic; flame-retardant and heat-resistant (UL94 V-0)	
Weight	4.6g (Typ)	

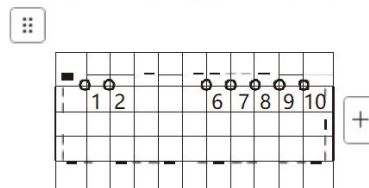
**Unless specified, otherwise all other parameters are tested under the following conditions: nominal input voltage, pure resistive load, 25°C room temperature environment.

Dimensions and Recommended Layout



First Angle Projection

RECOMMENDED FOOTPRINT
Top view, grid: 2.54 mm (0.1 inch)
diameter: 1.00 mm (0.039 inch)



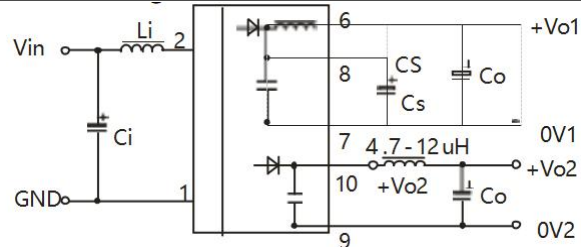
Note:
Unit: mm (inch)
Pin section: 0.50 * 0.30 mm (0.020 * 0.012 inch)
Pin section tolerances: ±0.05 mm (±0.002 inch)
General tolerances: ±0.25 mm (±0.010 inch)

Pins

Pin	Single		
1	GND		
2	Vin		
6	+Vo1		
7	0V1		

8	CS		
9	0V2		
10	+Vo2		

Recommended Circuit



Vin	5VDC&12VDC	24VDC&48VDC
Cin1	100uF	10-47uF
Lin	10-120uH	
Cout	100uF	

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.