

Typical Performance

FEATURES

- 2:1 Wide Input Range, isolation, Regulated Output,1W
- I/O Isolation : 1000VDC,1500VDC,3000VDC
- Efficiency :up to 80%
- Short circuit protection(automatic recovery)
- Working temperature -40°C~+85°C
- MTBF≥10×10⁵Hrs
- In line with RoHS Compliant
- Postive voltage accuracy:±1%(typ)
- Negative voltage accuracy:±3%(typ)
- Line regulation (Vin from low to high): ±0.2%(typ)
- Load regulation (10%-100% load) :±0.5%
- Ripple&noise(20MHz Band width) <75mVp-p
- Temperature drift(100% full load):±0.03%/°C(max)
- Switching Frequency(Full load,nominal input):300Khz(PFM)
- Storage Temperature:-55°C~+125°C
- Isolation Resistance:1000MΩ/1min
- Cooling:Free aire converction



3-Years Product Warranty

WW 1 XX S/D XX S/S3
 ① ② ③ ④ ⑤ ⑥

- ① Series name
- ② Output watt
- ③ Normal input voltage
- ④ S:Single output
D: Dual output
- ⑤ Output voltage
- ⑥ I/O isolation(S:1KV,no S:1.5KV,S3:3KV)

Product Program

Part #	Input voltage range	Nominal output voltage / output current						Efficiency (% , typ)
		VO1			VO2			
		Voltage (VDC)	Min (mA)	Max (mA)	Voltage (VDC)	Min (mA)	Max (mA)	
WW1-05S05	5V (4.5~9VDC)	5		200				
WW1-05S09		9		110				
WW1-05S12		12		83				
WW1-05S15		15		68				
WW1-05S24		24		42				
WW1-05D05		+5		+100	-5		-100	
WW1-05D09		+9		+55	-9		-55	
WW1-05D12		+12		+40	-12		-40	
WW1-05D15		+15		+33	-15		-33	
WW1-05D24		+24		+21	-24		-21	
WW1-12S3V3		3.3	30	303				

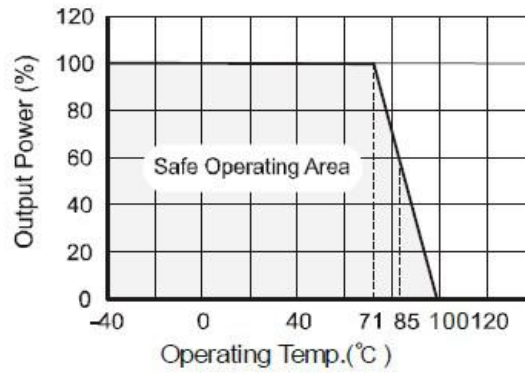
WW1-12S05		5		200				
WW1-12S09		9		110				
WW1-12S12		12		83				
WW1-12S15		15		68				
WW1-12S24		24		42				
WW1-12D05		+5		+100	-5		-100	
WW1-12D09		+9		+55	-9		-55	
WW1-12D12		+12		+40	-12		-40	
WW1-12D15		+15		+33	-15		-33	
WW1-12D24		+24		+21	-24		-21	
WW1-24S3V3	24V (18~36VDC)	3.3	30	303				
WW1-24S05		5		200				
WW1-24S09		9		110				
WW1-24S12		12		83				
WW1-24S15		15		68				
WW1-24S24		24		42				
WW1-24D05		+5		+100	-5		-100	
WW1-24D09		+9		+55	-9		-55	
WW1-24D12		+12		+40	-12		-40	
WW1-24D15		+15		+33	-15		-33	
WW1-24D24	+24		+21	-24		-21		
WW1-48S05	48V (36~72VDC)	5		200				
WW1-48S09		9		110				
WW1-48S12		12		83				
WW1-48S15		15		68				
WW1-48S24		24		42				
WW1-48D05		+5		+100	-5		-100	
WW1-48D09		+9		+55	-9		-55	
WW1-48D12		+12		+40	-12		-40	
WW1-48D15		+15		+33	-15		-33	
WW1-48D24		+24		+21	-24		-21	

□ Shows the nominal value of input voltage, due to space limitations, the above list is only for some products, if other than a list of products, please contact the Company's sales department.

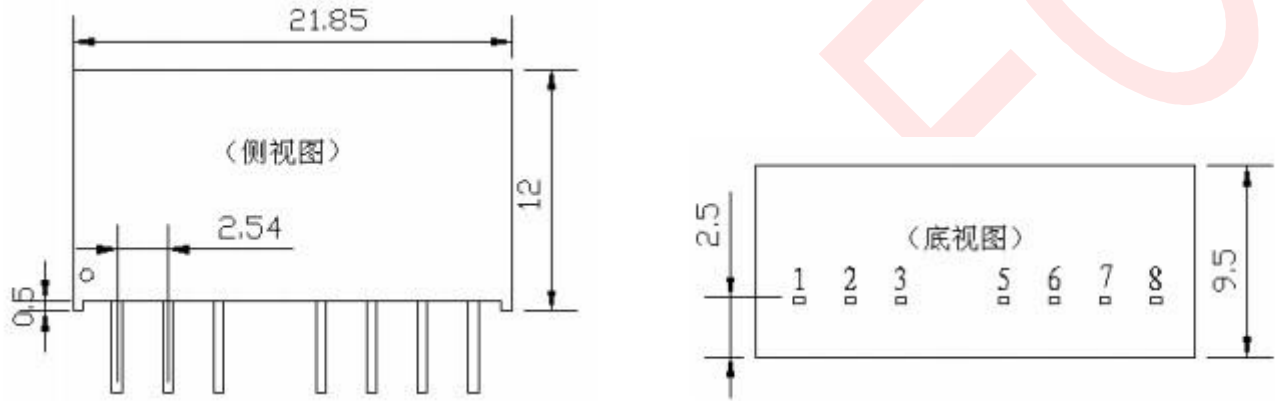
Mechanical Data

Packing Code	L x W x H : mm	Packing No.
A	22.00 x 9.5 x 12	

Typical Temperature Curve

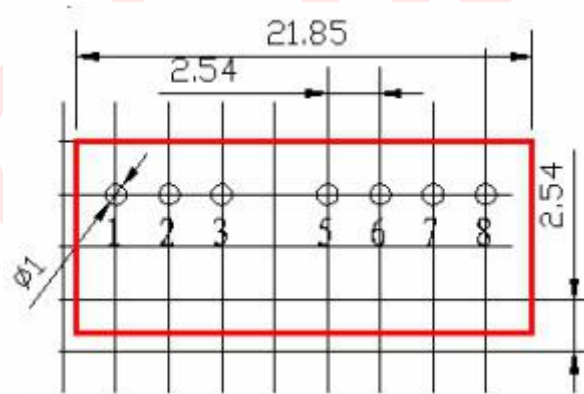


Mechanical Dimension



LATERAL VIEW

BOTTOM VIEW



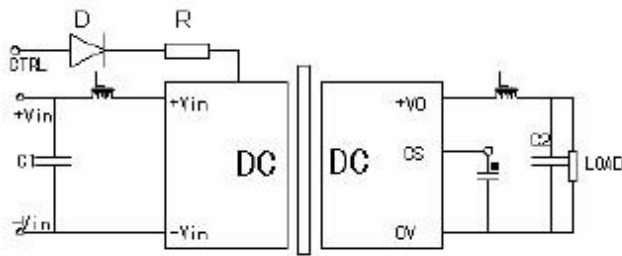
Recommended PCB Layout

UNIT:mm

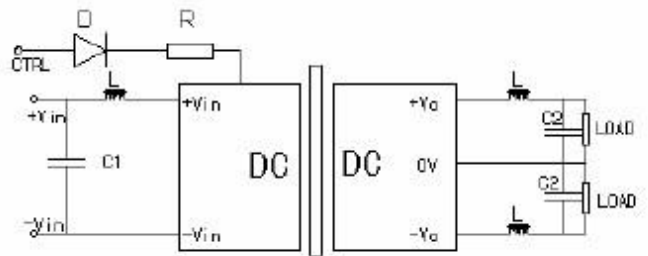
Pin Assignment

PIN	1	2	3	5	6	7	8			
S	GND	Vin	CTRL	NC	+Vo	0V	CS			
D	GND	Vin	CTRL	NC	+Vo	0V	-Vo			

Recommend Circuit



Single O/P



Dual O/P

C1, C2 select

Single O/P	C1	Dual O/P	C2
3.3VDC	1000uF	±5 VDC	330uF
5VDC	680uF	±9 VDC	330uF
9VDC	560uF	±12 VDC	220uF
12VDC	470uF	±15 VDC	150uF
15VDC	330uF	±24VDC	100uF
24VDC	220uF	---	---

Application Note

1. The load shouldn't be over the max load and shouldn't be less than 10%, otherwise the ripple will increase dramatically, then they may not meet all specification listed.
2. To be more reliable, if your circuit load power demand is smaller, please connect an appropriate resistor to increase Load in following output.
3. This product doesn't support hot-swappable, can't be used in parallel.

*Note: The power modules such as the definition of the pin does not match with the hand book, please refer to the actual item.