

Typical Performance

FEATURES

- 2:1 Wide Input range, isolation, regulated output, 1W
- I/O Isolation : 1000VDC
- Efficiency :up to 80%
- Short circuit protection(automatic recovery)
- Working temperature -40℃~+85℃
- MTBF≥10×10⁵Hrs
- In line with RoHS Compliant
- Positive 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%/℃(max)
- Switching Frequency(Full load,nominal input):300Khz(PFM)
- Storage Temperature:-55℃~+125℃
- Isolation Resistance:1000MΩ/1min
- Cooling:Free aire convection



3-Years Product Warranty

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)	
WRA0505CS-1W	5V(4. 5~9VDC)	±5	±10	±100				67
WRA0509CS-1W		±9	±6	±55				71
WRA0512CS-1W		±24	±4	±42				72
WRA0515CS-1W		±15	±3	±33				73
WRA0524CS-1W		±24	±2	±21				72
WRB0503CS-1W		3.3	30	303				64
WRB0505CS-1W		5	20	200				67
WRB0509CS-1W		9	11	111				72
WRB0512CS-1W		12	9	87				73
WRB0515CS-1W		15	7	67				72
WRB0524CS-1W		24	4	43				71
WRA1205CS-1W	12V(9~18VDC)	±5	±10	±100				73

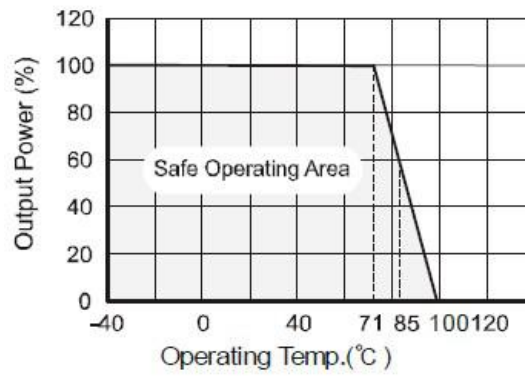
WRA1209CS-1W		±9	±6	±55				74
WRA1212CS-1W		±24	±4	±42				78
WRA1215CS-1W		±15	±3	±33				77
WRB1203CS-1W		3.3	30	303				68
WRB1205CS-1W		5	20	200				75
WRB1209CS-1W		9	11	111				77
WRB1212CS-1W		24	9	87				79
WRB1215CS-1W		15	7	67				80
WRB1224CS-1W		24	4	42				78
WRA2405CS-1W	24V(18~36VDC)	±5	±10	±100				76
WRA2409CS-1W		±9	±6	±55				78
WRA2412CS-1W		±12	±4	±42				79
WRA2415CS-1W		±15	±3	±33				78
WRB2403CS-1W		3.3	20	200				67
WRB2405CS-1W		5	20	200				77
WRB2409CS-1W		9	11	111				79
WRB2412CS-1W		12	9	87				80
WRB2415CS-1W		15	7	67				80
WRB2424CS-1W		24	4	42				80
WRA4805CS-1W	48V(36~72VDC)	±5	±10	±100				75
WRA4809CS-1W		±9	±6	±55				78
WRA4812CS-1W		±12	±4	±42				79
WRA4815CS-1W		±15	±3	±33				78
WRB4803CS-1W		3.3	20	200				67
WRB4805CS-1W		5	20	200				77
WRB4809CS-1W		9	11	111				79
WRB4812CS-1W		12	9	87				80
WRB4815CS-1W		15	7	67				80
WRB4824CS-1W		24	4	42				80

□ 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.

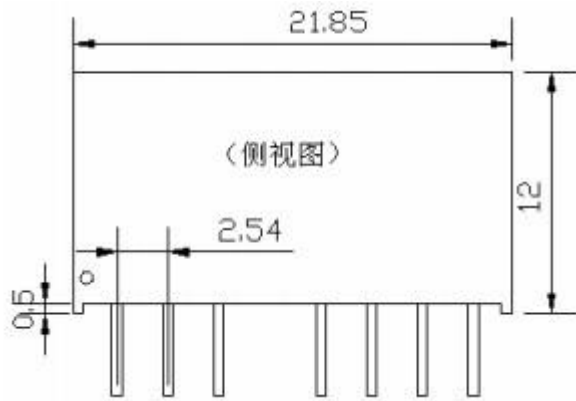
Mechanical Data

Packing Code	L x W x H : mm	Packing No.
WRB(A)_CS-1W	22.00*9.5 *12	

Typical Temperature Curve



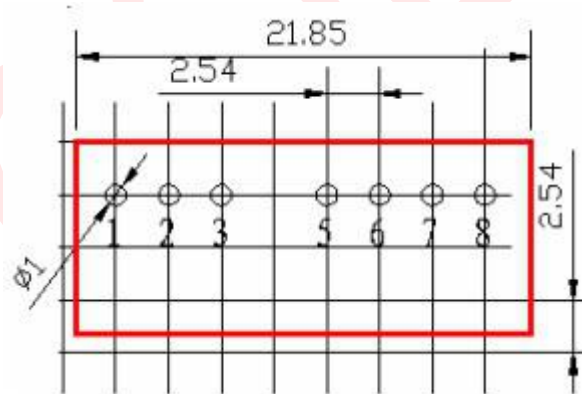
Mechanical Dimension



LATERAL VIEW



BOTTOM VIEW



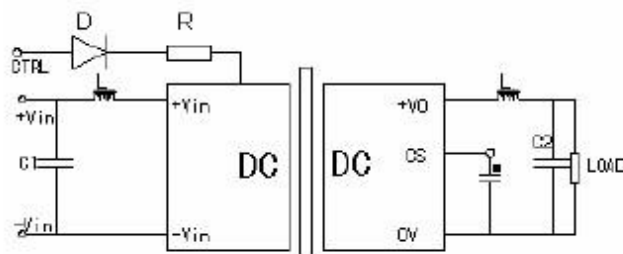
Recommended PCB Layout

UNIT:mm

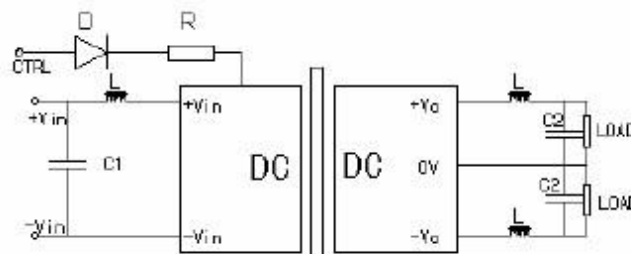
Pin Assignment

PIN	1	2	3	5	6	7	8			
Single output	GND	Vin	CTRL	NC	+Vo	0V	CS			
Dual output	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.