

Typical Performance

FEATURES

- 2:1 Wide Input range, isolation, regulated output,3W
- I/O Isolation : 1000VDC,3000VDC
- 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) <100mVp-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-3W	5V(4.5~9VDC)	±5	±30	±300				67
WRA0509CS-3W		±9	±16.5	±165				71
WRA0512CS-3W		±12	±12.5	±125				72
WRA0515CS-3W		±15	±10	±100				73
WRA0524CS-3W		±24	±6	±60				72
WRB0503CS-3W		3.3	60	606				64
WRB0505CS-3W		5	60	600				67
WRB0509CS-3W		9	33	330				72
WRB0512CS-3W		12	25	250				73
WRB0515CS-3W		15	20	200				72
WRB0524CS-3W		24	12.5	125				71
WRA1205CS-3W	12V(9~18VDC)	±5	±30	±300				73

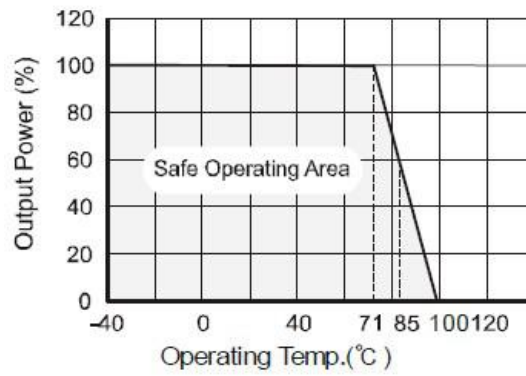
WRA1209CS-3W		±9	±16.5	±165				74
WRA1212CS-3W		±12	±12.5	±125				78
WRA1215CS-3W		±15	±10	±100				77
WRB1203CS-3W		3.3	60	606				68
WRB1205CS-3W		5	60	600				75
WRB1209CS-3W		9	33	330				77
WRB1212CS-3W		12	25	250				79
WRB1215CS-3W		15	20	200				80
WRB1224CS-3W		24	12.5	125				78
WRA2405CS-3W	24V(18~36VDC)	±5	±30	±300				76
WRA2409CS-3W		±9	±16.5	±165				78
WRA2412CS-3W		±12	±12.5	±125				79
WRA2415CS-3W		±15	±10	±100				78
WRB2403CS-3W		3.3	60	606				67
WRB2405CS-3W		5	60	600				77
WRB2409CS-3W		9	33	330				79
WRB2412CS-3W		12	25	250				80
WRB2415CS-3W		15	20	200				80
WRB2424CS-3W		24	12.5	125				80
WRA4805CS-3W	48V(36~72VDC)	±5	±30	±300				75
WRA4809CS-3W		±9	±16.5	±165				78
WRA4812CS-3W		±12	±12.5	±125				79
WRA4815CS-3W		±15	±10	±100				78
WRB4803CS-3W		3.3	60	606				67
WRB4805CS-3W		5	60	600				77
WRB4809CS-3W		9	33	330				79
WRB4812CS-3W		12	25	250				80
WRB4815CS-3W		15	20	200				80
WRB4824CS-3W		24	12.5	125				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.

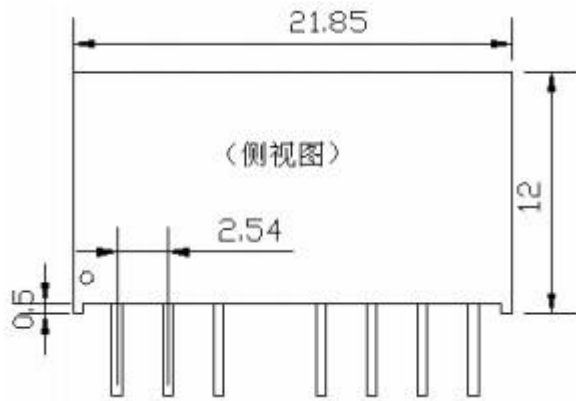
Mechanical Data

Packing Code	L x W x H : mm	Packing No.
WRB(A)_CS-3W	22.00*9.5*12	

Typical Temperature Curve



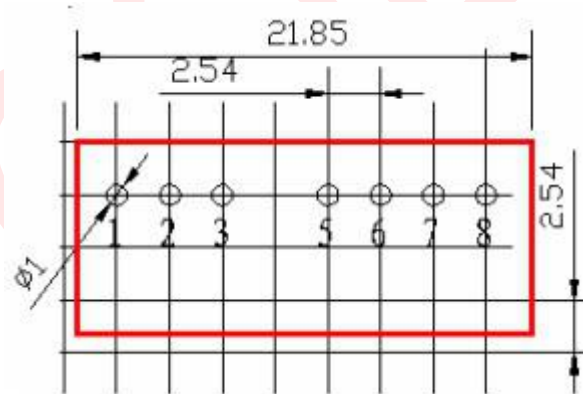
Mechanical Dimension



LATERAL VIEW



BOTTOM VIEW



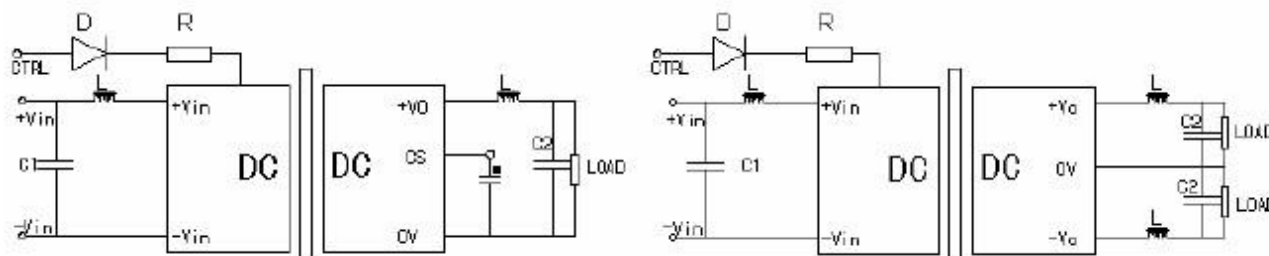
Recommended PCB Layout

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



C1、C2 select

Single O/P	C1	Dual O/P	C2
5VDC	1000uF	±5 VDC	680uF
9VDC	680uF	±9 VDC	470uF
12VDC	470uF	±12 VDC	330uF
15VDC	330uF	±15 VDC	220uF
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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.