

Typical Performance

FEATURES

- 2:1 Wide Input range, isolation, regulated output,3W
- I/O Isolation : 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)	
WRE0505S-3WR2	5V(4.5~9VDC)	±5	±13	±250				74
WRE0512S-3WR2		±12	±5	±104				77
WRE0515S-3WR2		±15	±4	±83				77
WRF0505S-3WR2		5	25	500				73
WRF0509S-3WR2		9	14	278				74
WRF0512S-3WR2		12	10	208				77
WRF0515S-3WR2		15	8	167				74
WRE1205S-3WR2	12V(9~18VDC)	±5	±15	±300				78
WRE1212S-3WR2		±12	±6	±125				79
WRE1215S-3WR2		±15	±5	±100				80
WRF1203S-3WR2		3.3	38	758				75
WRF1205S-3WR2		5	30	600				76

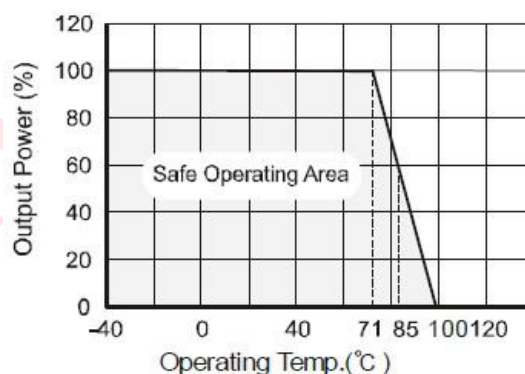
WRF1209S-3WR2		9	17	333				79
WRF1212S-3WR2		12	13	250				82
WRF1215S-3WR2		15	10	200				83
WRF1224S-3WR2		24	6	125				81
WRE2405S-3WR2	24V(18~36VDC)	±5	±15	±300				79
WRE2409S-3WR2		±9	±8	±167				81
WRE2412S-3WR2		±12	±6	±125				83
WRE2415S-3WR2		±15	±5	±100				83
WRF2403S-3WR2		3.3	38	758				83
WRF2405S-3WR2		5	30	600				83
WRF2409S-3WR2		9	17	333				83
WRF2412S-3WR2		12	13	250				83
WRF2415S-3WR2		15	10	200				74
WRF2424S-3WR2		24	6	125				81
WRE4805S-3WR2	48V(36~72VDC)	±5	±15	±300				83
WRE4812S-3WR2		±12	±6	±125				83
WRE4815S-3WR2		±15	±5	±100				74
WRF4803S-3WR2		3.3	38	758				81
WRF4805S-3WR2		5	30	600				83
WRF4812S-3WR2		12	13	250				83
WRF4815S-3WR2		15	10	200				83

□ 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.

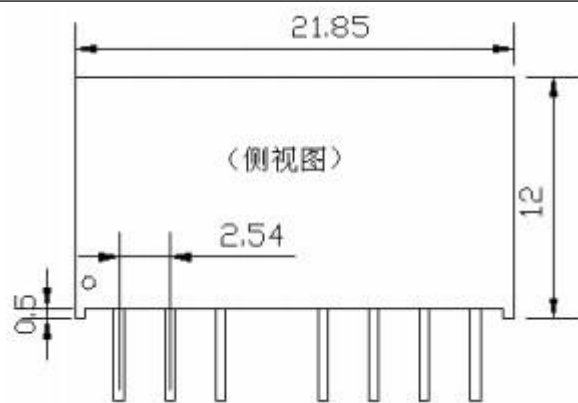
Mechanical Data

Packing Code	L x W x H : mm	Packing No.
WRE(F)_S-3WR2	22.00*9.5*12	

Typical Temperature Curve



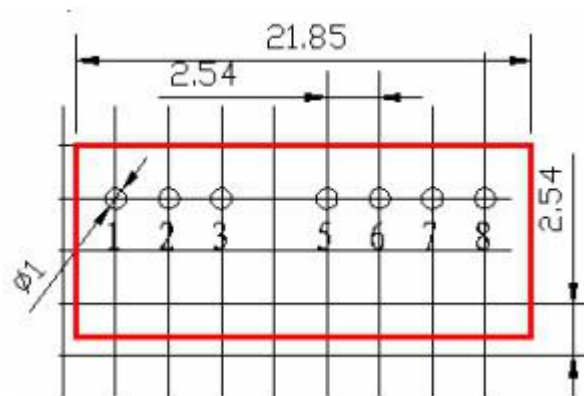
Mechanical Dimension



LATERAL VIEW



BOTTOM VIEW



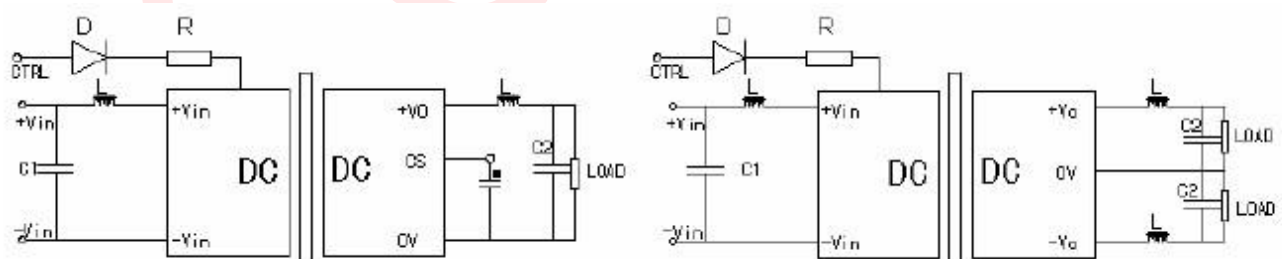
Recommended PCB Layout

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.			