



FEATURES

- ◆ Wide (2:1) Input Range
- ◆ 24Pin DIP Package
- ◆ 3000VDC Isolation
- ◆ Operating Temperature: -40℃ ~ + 85℃
- ◆ High Efficiency Up To 81%
- ◆ Low Profile Metal Package
- ◆ Continuous Short Circuit Protection
- ◆ Pin-Compatible With Multiple Manufacturers
- ◆ RoHS Compliance
- ◆ MTBF>1000Hours

MODEL SELECTION

WRE^①24^②15^③Y^④D^⑤-4W(133)^⑥

- ① Product Series ② Input Voltage
- ③ Output Voltage ④ Wide (2:1) Input Range
- ⑤ DIP24 Package Style
- ⑥ Rated Power(Output current)

APPLICATIONS

The WRE_YD-4W & WRF_YD-4W Series are specially designed for applications where a wide range input voltage power supplies are isolated from the input power supply in a distributed power supply system on a circuit board. These products apply to:

- 1) Where the voltage of the input power supply is wide range (Voltage range ≤ 2:1);
- 2) Where isolation is necessary between input and output (Isolation voltage ≤ 3000VDC);
- 3) Where the regulation of the Output voltage and the output ripple noise are demanded.



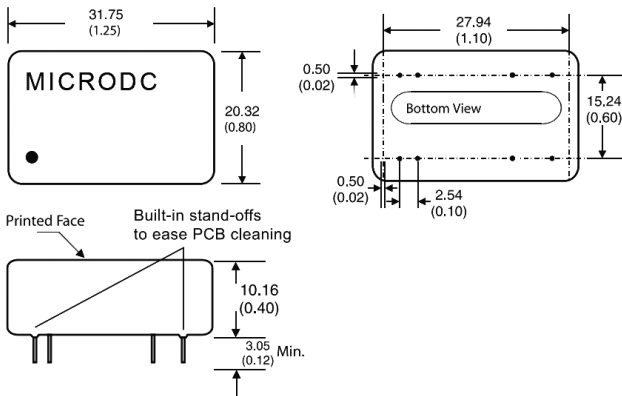
CE REACH
MICRODC RESERVES THE COPYRIGHT

SELECTION GUIDE

Order code	Input		Output	
	Voltage(VDC)		Voltage	Current max.
	Nominal	Range		
WRF1203YD-1000	12	9VDC - 18VDC	3.3VDC	1000mA
WRF1205YD-4W	12	9VDC - 18VDC	5VDC	800mA
WRF1207YD-4W	12	9VDC - 18VDC	7.2VDC	556mA
WRF1209YD-4W	12	9VDC - 18VDC	9VDC	444mA
WRF1212YD-4W	12	9VDC - 18VDC	12VDC	333mA
WRF1215YD-4W	12	9VDC - 18VDC	15VDC	267mA
WRF1218YD-4W	12	9VDC - 18VDC	18VDC	222mA
WRF1224YD-4W	12	9VDC - 18VDC	24VDC	167mA
WRF2403YD-1000	24	18VDC - 36VDC	3.3VDC	1000mA
WRF2405YD-4W	24	18VDC - 36VDC	5VDC	800mA
WRF2407YD-4W	24	18VDC - 36VDC	7.2VDC	556mA
WRF2409YD-4W	24	18VDC - 36VDC	9VDC	444mA
WRF2412YD-4W	24	18VDC - 36VDC	12VDC	333mA
WRF2415YD-4W	24	18VDC - 36VDC	15VDC	267mA
WRF2418YD-4W	24	18VDC - 36VDC	18VDC	222mA
WRF2424YD-4W	24	18VDC - 36VDC	24VDC	167mA
WRF4803YD-1000	48	36VDC - 72VDC	3.3VDC	1000mA
WRF4805YD-4W	48	36VDC - 72VDC	5VDC	800mA
WRF4807YD-4W	48	36VDC - 72VDC	7.2VDC	556mA
WRF4809YD-4W	48	36VDC - 72VDC	9VDC	444mA
WRF4812YD-4W	48	36VDC - 72VDC	12VDC	333mA
WRF4815YD-4W	48	36VDC - 72VDC	15VDC	267mA
WRF4818YD-4W	48	36VDC - 72VDC	18VDC	222mA
WRF4824YD-4W	48	36VDC - 72VDC	24VDC	167mA
WRE1203YD-500	12	9VDC - 18VDC	±3.3VDC	±500mA
WRE1205YD-4W	12	9VDC - 18VDC	±5VDC	±400mA
WRE1207YD-4W	12	9VDC - 18VDC	±7.2VDC	±278mA
WRE1209YD-4W	12	9VDC - 18VDC	±9VDC	±222mA
WRE1212YD-4W	12	9VDC - 18VDC	±12VDC	±167mA
WRE1215YD-4W	12	9VDC - 18VDC	±15VDC	±133mA
WRE1218YD-4W	12	9VDC - 18VDC	±18VDC	±111mA
WRE1224YD-4W	12	9VDC - 18VDC	±24VDC	±83mA
WRE2403YD-500	24	18VDC - 36VDC	±3.3VDC	±500mA
WRE2405YD-4W	24	18VDC - 36VDC	±5VDC	±400mA
WRE2407YD-4W	24	18VDC - 36VDC	±7.2VDC	±278mA
WRE2409YD-4W	24	18VDC - 36VDC	±9VDC	±222mA
WRE2412YD-4W	24	18VDC - 36VDC	±12VDC	±167mA
WRE2415YD-4W	24	18VDC - 36VDC	±15VDC	±133mA
WRE2418YD-4W	24	18VDC - 36VDC	±18VDC	±111mA
WRE2424YD-4W	24	18VDC - 36VDC	±24VDC	±83mA
WRE4803YD-500	48	36VDC - 72VDC	±3.3VDC	±500mA
WRE4805YD-4W	48	36VDC - 72VDC	±5VDC	±400mA
WRE4807YD-4W	48	36VDC - 72VDC	±7.2VDC	±278mA
WRE4809YD-4W	48	36VDC - 72VDC	±9VDC	±222mA
WRE4812YD-4W	48	36VDC - 72VDC	±12VDC	±167mA
WRE4815YD-4W	48	36VDC - 72VDC	±15VDC	±133mA
WRE4818YD-4W	48	36VDC - 72VDC	±18VDC	±111mA
WRE4824YD-4W	48	36VDC - 72VDC	±24VDC	±83mA

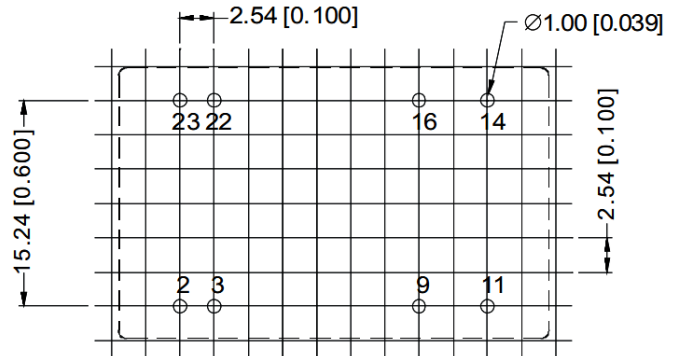
OUTLINE DIMENSIONS & FOOTPRINT DETAILS

MECHANICAL DIMENSIONS



Note:
 Unit:mm[inch]
 Pin section tolerances:±0.10mm[±0.004inch]
 General tolerances:±0.25mm[±0.010inch]

RECOMMENDED FOOTPRINT



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

FOOTPRINT DETAILS

Pin	Single	Dual
2、3	-V Input	-V Input
9	N.C	Common
11	N.C	-V Output
14	+V Output	+V Output
16	-V Output	Common
22、23	+V Input	+V Input

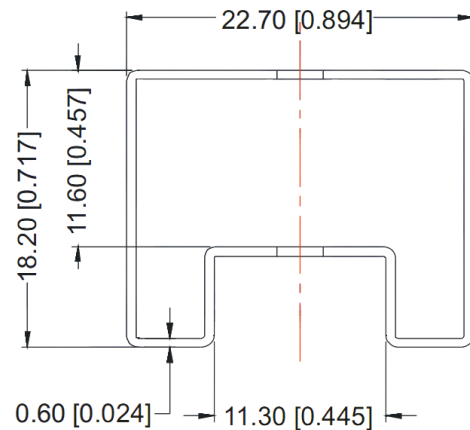
NC:No connection

When the environment temperature is higher than 71°C, the product output power should be less than 60% of the rated power.

No parallel connection or plug and play.

Use dual output simultaneously, forbid pening output pin (0V) to use as single output.

TUBE OUTLINE DIMENSIONS



Note:

Unit :mm[inch]

General tolerances:±0.50mm[±0.020inch]

L=530mm[20.866inch] Tube Quantity: 15pcs

L=220mm[8.661inch] Tube Quantity: 6pcs

Note:

1. The load shouldn't be less than 10%, otherwise ripple will increase dramatically.
2. Operation under 10% load will not damage the converter; However, they may not meet all specification listed.
3. All specifications measured at Ta=25°C, humidity<75%, nominal input voltage and rated output load unless otherwise specified.
4. In this data sheet, all the test methods of indications are based on corporate standards.
5. Only typical models listed, other models may be different, please contact our technical person for more details.