



Professional Power Module

WRA_ZMD-10W & WRB_ZMD -10W GYf]Yg

10 , IDEIN ,I LA ED& EG LA EDD AL/ INGLE

DC-DC C N E E



FEATURES

- Wide (4:1) Input Range
- Short Circuit Protection(automatic recovery)
- 1500VDC Isolation
- Operating Temperature: -40 85
- No heat sink required
- No external component required
- Internal SMD required
- Metal shielding package
- MTBF>10000hours

MODEL SELECTION

WRB[®] 24[®] 05[®] Z[®] M[®] D[®] -10W[®]

Product Series	Input Voltage
Output Voltage	Wide (4:1) Input Range
Metal Shield	DIP Package Style
Rated Power	

APPLICATIONS

The WRA_ZMD-10W&WRB_ZMD-10W 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 4:1);
- 2) Where isolation is necessary between input and output (Isolation voltage 1500VDC);
- 3) Where the regulation of the Output voltage and the output ripple noise are demanded.



CE REACH

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TEMPERATURE CHARACTERISTICS

Output power	See below products program				
Positive voltage accuracy	Refer to recommended circuit				
Negative voltage accuracy	Refer to recommended circuit				
Load regulation	Form 10% to 100% load				
Line regulation	Input voltage from low to high				
Temperature drift (Vout)	Refer to recommended circuit				
Ripple**	20MHz Bandwidth				
Noise**	20MHz Bandwidth				
Switching frequency	100% load, input voltage range				

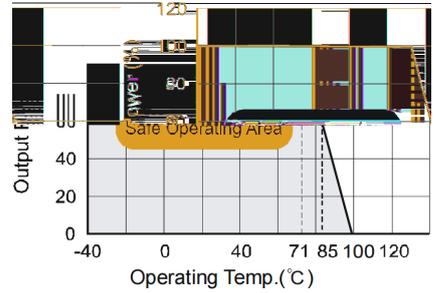
* Dual output models unbalanced load: $\pm 5\%$.
 ** Test ripple and noise by "parallel cable" method. See detailed operation instructions at Testing of Power Converter section, application notes.

APPLICATION NOTE

In order to ensure the product operate efficiently and reliably, in addition to a max load (namely full load), a minimum load is specified for this kind of DC/DC converter. Make sure the specified range of input voltage is

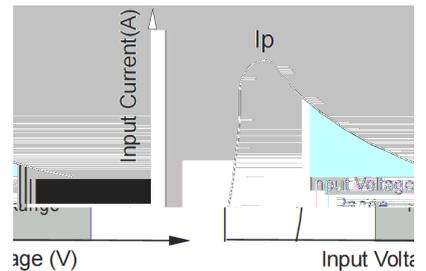
TYPICAL CHARACTERISTICS

Temperature Derating Graph



RECOMMENDED CIRCUIT

Output Graph

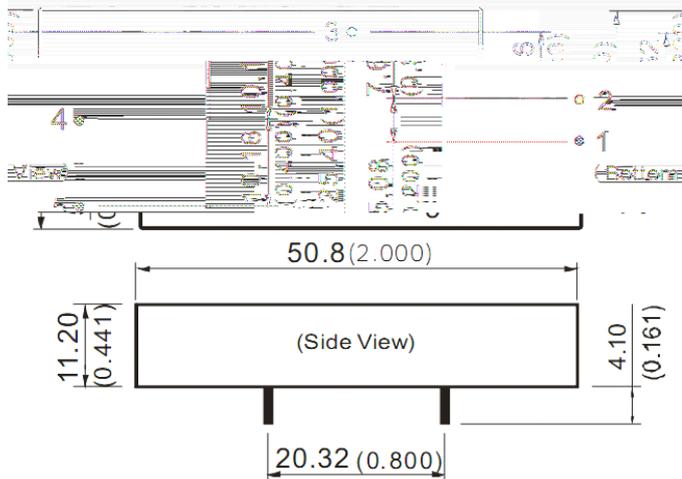


Output External Capacitor Table (Table 1)

Single Vout (VDC)	Cout (μF)	Dual Vout (VDC)	Cout (μF)
5	680	± 5	680
12	470	± 12	330
15	330	± 15	220

OUTLINE DIMENSIONS & FOOTPRINT DETAILS

MECHANICAL DIMENSIONS



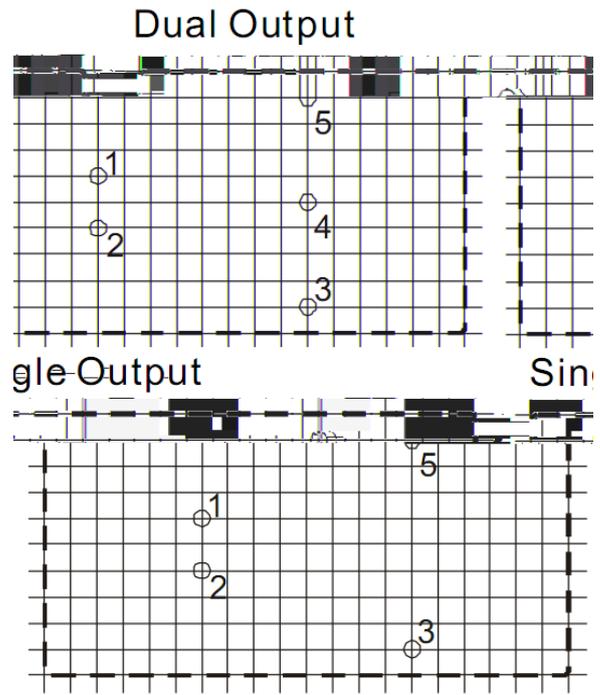
Note:
 Unit:mm[inch]
 Pin section tolerances:±0.10mm[±0.004inch]
 General tolerances:±0.25mm[±0.010inch]

FOOTPRINT DETAILS

Pin	Single	Dual
1	GND	GND
2	Vin	Vin
3	+Vo	+Vo
4	NC	0V
5	0V	-Vo

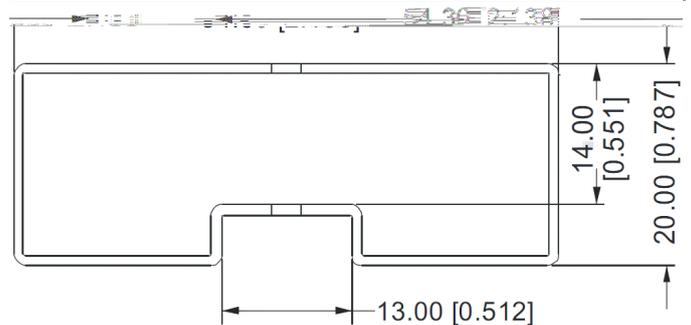
NC:No connection

RECOMMENDED FOOTPRINT



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

TUBE OUTLINE DIMENSIONS



Unit :mm[inch]
 General tolerances:±0.50mm[±0.020inch]
 L=230mm[9.055inch] Tube Quantity: 7pcs

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 datasheet, 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.