

## UP TO 10 WATTS - JRW SERIES

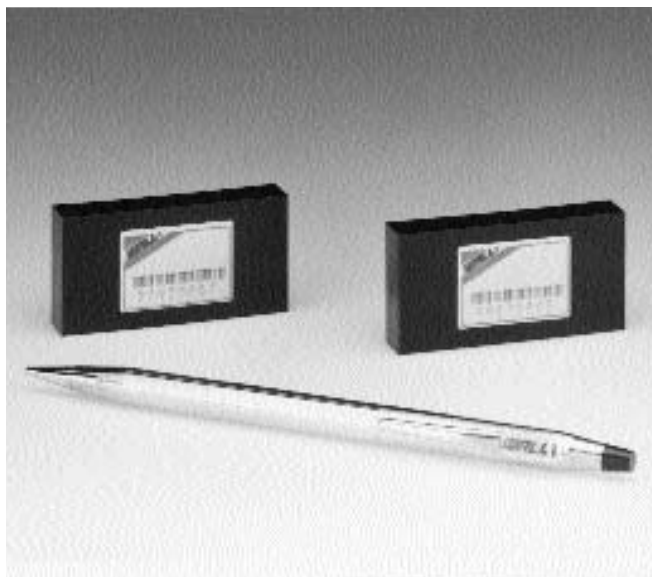
4:1 Input, Regulated and Isolated

### FEATURES

- Output Power up to 10 Watts
- Ultra-Wide Input Voltage Range (4:1)
- Industry Standard Pin-Out
- Single and Dual Outputs
- Full Power to +71°C Ambient
- Continuous short circuit protection
- UL1950, cUL950, EN60950 and CE MARK.

### THE JRW SERIES FROM WALL INDUSTRIES

The JRW Series of DC/DC converters features units of up to 10 watts in a 1.0 x 2.0 x 0.40" package. The units are PC mountable and include an input filter for low reflected ripple, continuous short circuit protection, thermal shutdown, up to 1600VDC input/output isolation and typical efficiencies of 80%.



### SPECIFICATIONS: JRW SERIES

*All specifications apply @ +25 C ambient unless otherwise noted.*

#### INPUT SPECIFICATIONS

Input Voltage Range.....9-36, 18-75VDC  
 Input Filter.....Pi-Input Filter

#### OUTPUT SPECIFICATIONS

Output Current.....see table  
 Voltage Accuracy.....±2% max.  
 Line Regulation (HL-LL) .....±1%  
 Load Regulation (10-100% load)  
     Single Output.....±1% max.  
     Dual Output.....±2% max.  
 Short Circuit Protection.....continuous, auto-recovery  
 Ripple/Noise (20MHz BW).....75mV max.  
 Transient Response (25% load step).....500 usec

#### GENERAL SPECIFICATIONS

Efficiency.....80% typical  
 Isolation Voltage (input to output).....1600VDC min.  
 Isolation Resistance (input to output).....10<sup>9</sup>Ohms  
 Switching Frequency.....300kHz typical

#### ENVIRONMENTAL SPECIFICATIONS

Operating Temperature.....-25 to +71°C (ambient)  
     .....see note 7  
 Storage Temperature.....-55 to +105°C  
 Humidity (non-condensing).....20 - 95% R.H.  
 Cooling.....Free Air Convection

#### PHYSICAL SPECIFICATIONS

Dimensions.....1.0 x 2.0 x 0.40"  
 Weight.....1.0 oz.  
 Shielding.....Six-sided  
 Case Material.....Nickel-coated copper with,  
     .....non-conductive baseplate

*Due to advances in technology, specifications subject to change without notice.*

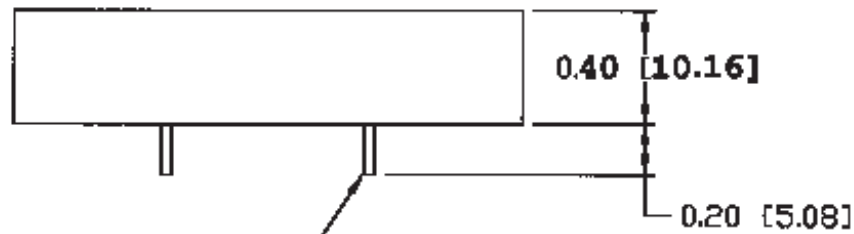
| Input Voltage (VDC) | Output Voltage (VDC) | Output Current (A) | OVP Set Point (VDC) | Model Number |
|---------------------|----------------------|--------------------|---------------------|--------------|
| 9-36                | 5                    | 2.00               | 6.2                 | JRW24S5-2000 |
|                     | 12                   | 0.830              | 15                  | JRW24S12-830 |
|                     | 15                   | 0.660              | 18                  | JRW24S15-660 |
|                     | ± 5                  | 1.00               | 6.2                 | JRW24D5-1000 |
|                     | ± 12                 | 0.420              | 15                  | JRW24D12-420 |
|                     | ± 15                 | 0.330              | 18                  | JRW24D15-330 |
| 18-75               | 5                    | 2.00               | 6.2                 | JRW48S5-2000 |
|                     | 12                   | 0.830              | 15                  | JRW48S12-830 |
|                     | 15                   | 0.660              | 18                  | JRW48S15-660 |
|                     | ± 5                  | 1.00               | 6.2                 | JRW48D5-1000 |
|                     | ± 12                 | 0.420              | 15                  | JRW48D12-420 |
|                     | ± 15                 | 0.330              | 18                  | JRW48D15-330 |

## PIN CONNECTIONS

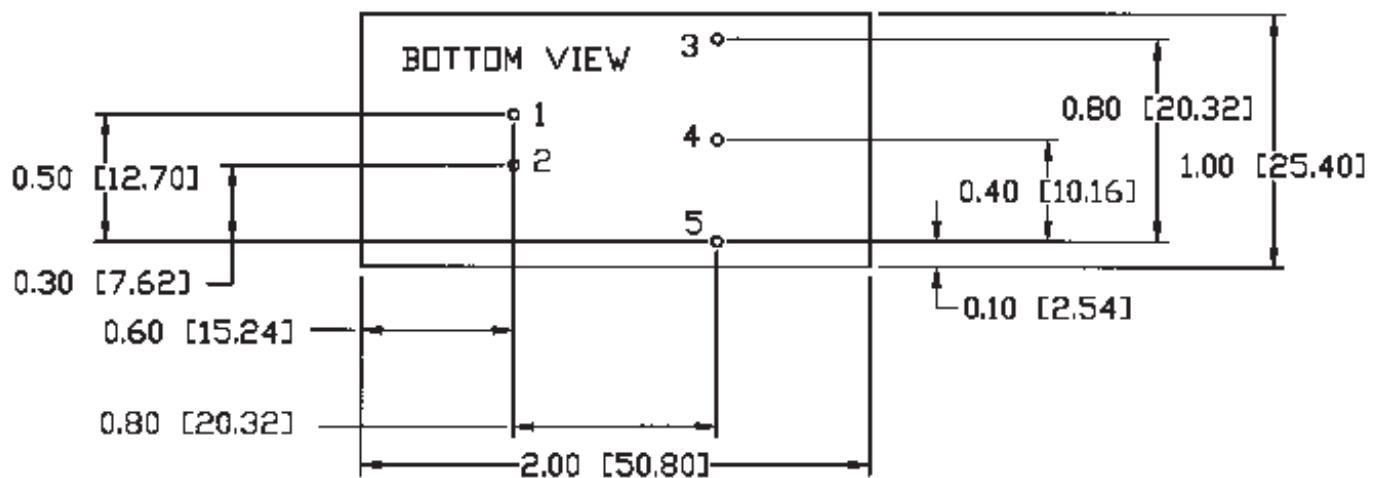
|   | Single | Dual   |
|---|--------|--------|
| 1 | +Vin   | +Vin   |
| 2 | - Vin  | - Vin  |
| 3 | + Vout | + Vout |
| 4 | No Pin | Common |
| 5 | -Vout  | -Vout  |

## NOTES:

1. All case and pin-to-case dimensions reference only unless otherwise noted.
2. PC pins -0.04" dia. x 0.20" long (min.); typical five places.
3. Pin to pin tolerance  $\pm 0.01"$ , Pin diameter tolerance  $\pm 0.005"$ .
4. Pin 4 - absent on singles.
5. Significant capacitive load on output may inhibit start up and operation consult factory.
6. All DC/DC converters should be externally fused on the front end for protection.
7. Add "I" suffix for -40°C to +71°C ambient.



PINS 0.04 [1.02] DIA.  
TYPICAL 5 PLACES.



DIMS: IN [MM]