

# Mintronics

## DC 200 SERIES

1 WATT SINGLE AND DUAL OUTPUT  
DC-DC CONVERTERS

### FEATURES

- 7 Pin SIP Package
- Fully Regulated
- Low Output Ripple and Noise
- High Reliability
- Input/Output Isolation

### INPUT SPECIFICATIONS

Input Voltage: 5, 12, 24V

Input Range:  $\pm 10\%$

Input Filter: Capacitor

### OUTPUT SPECIFICATIONS

Output Voltage: 5, 9, 12, 15,  $\pm 12$ ,  $\pm 15$

Voltage Accuracy:  $\pm 3\%$

Line Regulation:  $\pm 1\%$

Load Regulation:  $\pm 1\%$

Temperature Coefficient:  $\pm .02\%/^{\circ}\text{C}$

Ripple and Noise: 1% pp

(20 MHz Bandwidth) See Note (2)

Short Circuit Protection: Short Term

### GENERAL SPECIFICATIONS

Efficiency: 50% to 75%

Isolation Voltage: 500 Vdc

Operating Temperature:  $-25^{\circ}\text{C}$  to  $71^{\circ}\text{C}$

Storage Temperature:  $-40^{\circ}\text{C}$  to  $105^{\circ}\text{C}$

Case Type: Non-Conductive Plastic

Size: 1.25" x .34" x .57"

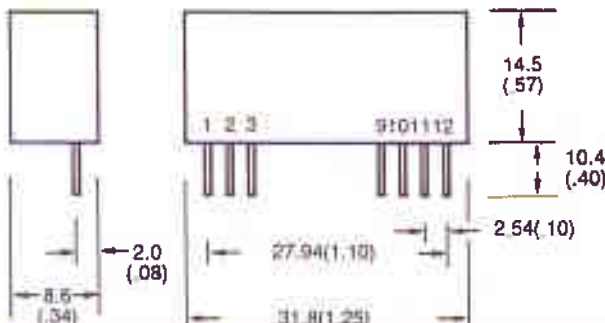
Note (1): 9 volt output units are unregulated.

Note (2): With a 10 $\mu\text{f}$  tantalum capacitor across each output.



MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT
DC-201	5V	5V	200mA
DC-202	5V	12V	125mA
DC-203	5V	15V	100mA
DC-211	12V	5V	200mA
DC-212	12V	12V	125mA
DC-213	12V	15V	100mA
DC-221	24V	5V	200mA
DC-222	24V	12V	125mA
DC-223	24V	15V	100mA
DC-208	5V	$\pm 12\text{V}$	$\pm 60\text{mA}$
DC-209	5V	$\pm 15\text{V}$	$\pm 50\text{mA}$
DC-218	12V	$\pm 12\text{V}$	$\pm 60\text{mA}$
DC-219	12V	$\pm 15\text{V}$	$\pm 50\text{mA}$
DC-228	24V	$\pm 12\text{V}$	$\pm 60\text{mA}$
DC-229	24V	$\pm 15\text{V}$	$\pm 50\text{mA}$
DC-206	5V	9V Note (1)	100mA
DC-216	12V	9V Note (1)	100mA

### DIMENSIONS:



### PIN CONNECTIONS:

PIN	SINGLE	DUAL
1	+ INPUT	+ INPUT
2	NC	- OUTPUT
3	NC	COMMON
9	NC	NC
10	- OUTPUT	COMMON
11	+ OUTPUT	+ OUTPUT
12	- INPUT	- INPUT

CALL TOLL FREE 1-800-367-0004 FOR MORE INFORMATION.

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