

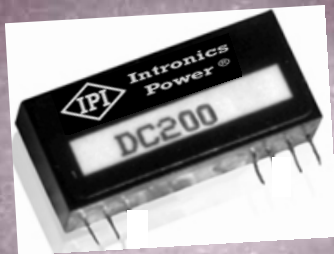


**Intronics  
Power®**

**DC 200 SERIES**

**1 and 2 WATT DUAL  
OUTPUT DC – DC  
CONVERTERS**

- 5 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

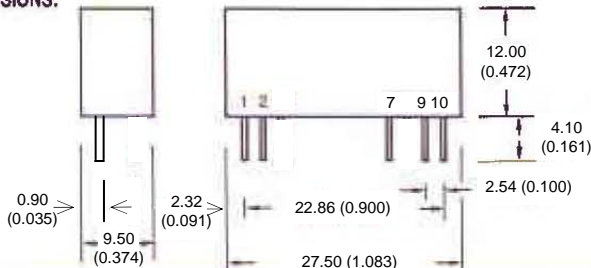
**GENERAL SPECIFICATIONS**

Efficiency: 68% to 75%  
 Isolation Voltage: 500 Vdc  
 Operating Temperature:  $-40^{\circ}\text{C}$  to  $85^{\circ}\text{C}$   
 Storage Temperature:  $-55^{\circ}\text{C}$  to  $125^{\circ}\text{C}$   
 Case Type: Non-Conductive Plastic  
 Size 1.083 x .374 x .472  
 27.5 x 9.5 x 12.0 mm

Note (1): 9 volt output units are unregulated.  
 Note (2): With a 10uf tantalum capacitor across each output.

MODEL NUMBER		INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT
DC-201-1	1 WATT	5V	$\pm 5V$	$\pm 100\text{mA}$
DC-202-1		5V	$\pm 12V$	$\pm 42\text{mA}$
DC-203-1		5V	$\pm 15V$	$\pm 33\text{mA}$
DC-211-1		12V	$\pm 5V$	$\pm 100\text{mA}$
DC-212-1		12V	$\pm 12V$	$\pm 42\text{mA}$
DC-213-1		12V	$\pm 15V$	$\pm 33\text{mA}$
DC-221-1		24V	$\pm 5V$	$\pm 100\text{mA}$
DC-222-1		24V	$\pm 12V$	$\pm 42\text{mA}$
DC-223-1		24V	$\pm 15V$	$\pm 33\text{mA}$
DC-208-1	2 WATT	5V	$\pm 12V$	$\pm 84\text{mA}$
DC-209-1		5V	$\pm 15V$	$\pm 67\text{mA}$
DC-218-1		12V	$\pm 12V$	$\pm 84\text{mA}$
DC-219-1		12V	$\pm 15V$	$\pm 67\text{mA}$
DC-228-1		24V	$\pm 12V$	$\pm 84\text{mA}$
DC-229-1		24V	$\pm 15V$	$\pm 67\text{mA}$
DC-206-1		5V	9V Note (1)	$\pm 100\text{mA}$
DC-216-1		12V	9V Note (1)	$\pm 100\text{mA}$

**DIMENSIONS:**



**PIN CONNECTIONS:**

PIN	FUNCTION
1	Vin
2	GND
7	+Vo
9	-Vo
10	0V



**LEAD FREE**

NOTE: FOOT PRINT HAS CHANGED  
 FROM 7 PIN DIP TO 5 PIN DIP