



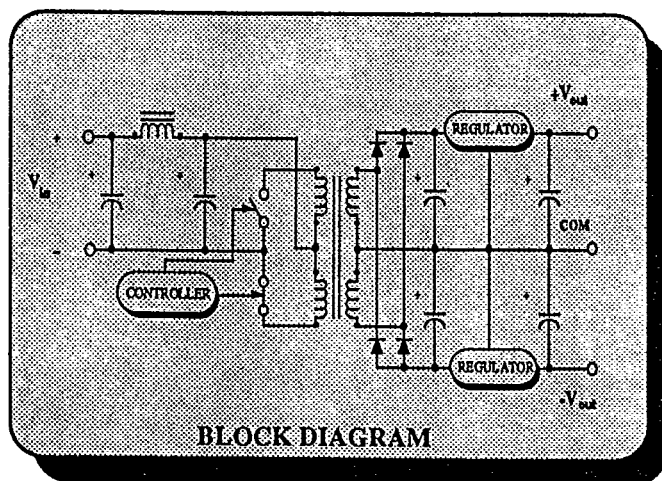
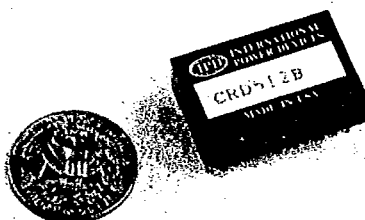
**INTERNATIONAL
POWER DEVICES**

T-57-11

1 WATT

CRD

SERIES



FEATURES:

- 24-PIN DIP PACKAGE
- Π (PI) INPUT FILTER
- 500VDC ISOLATION
- REGULATED OUTPUTS

APPLICATIONS:

- A/D-D/A CONVERTERS
- RS-232 DRIVERS
- INDUSTRIAL CONTROL CIRCUIT
- BIAS POWER FOR RAMS, ROMS, PROMS

The CRD Series is a line of regulated, dual output DC/DC converters packaged in a 24-pin DIP IC-compatible configuration. An internal π (Pi) input filter, three terminal output regulator, and high quality tantulum capacitors are standard for all models. These features eliminate the need for external filters on both the input and output sides. These miniature modules are ideal for high density PC boards where low power, isolated/regulated output is required.

ELECTRICAL SPECIFICATIONS

All Specifications Typical @+25°C, Nominal Line, and Full Load Unless Otherwise Noted.

INPUT SPECIFICATIONS

Input Voltage RangeSee Table Below
Input Filter Π (Pi) Filter

OUTPUT SPECIFICATIONS

Voltage Accuracy	±5%, max.
Line Regulation	±0.5%
Load Regulation	See Table
Ripple and Noise, 20 MHz BW	1 mV RMS, max.
20 MHz BW	40 mVp-p, max.
(10 µf Tantalum Capacitor Across Each Output)	
Short Circuit Protection	Continuous
Short Circuit Restart	Automatic

GENERAL SPECIFICATIONS

Efficiency	50%, typ.
Isolation Voltage	500 VDC, min.
Isolation Capacitance	80 pF
Isolation Resistance	10 ⁹ Ohms
Switching Frequency	40 KHz, typ.

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature Range -25°C to +71°C
Derating None
Storage Temperature Range -40°C to +125°C
Humidity 20% to 95% R.H. (non-condensing)
Cooling Free-Air Convection

PHYSICAL SPECIFICATIONS

Dimensions 1.25 x 0.8 x 0.4 Inches
 (32 x 20 x 10.2 mm)
 Weight 0.5 Oz. (14 g)
 Case Material Phenolic

NOMINAL INPUT VOLTAGE	INPUT VOLTAGE RANGE @ RATED OUTPUT LOAD			
	50%	60%	80%	100%
5	4.3-6.0	4.4-5.7	4.55-5.6	4.65-5.5
12	10.3-15.0	10.4-14.6	10.6-13.6	10.9-13.2

DUAL OUTPUTS

INTERNATIONAL
POWER DEVICES



INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		% EFF	REGULATION		MODEL NUMBER
			NO/LOAD	FULL/LOAD		LINE	LOAD	
5VDC	±12VDC	±40mA	116mA	379mA	50	±.5%	±.5%	CRD512*
	±15VDC	±33mA	115mA	340mA	50	±.5%	±.5%	CRD515*
12VDC	±12VDC	±40mA	42mA	150mA	50	±.5%	±.5%	CRD1212*
	±15VDC	±33mA	45mA	158mA	50	±.5%	±.5%	CRD1215*

* Two different pin-outs are available; please see figures below.

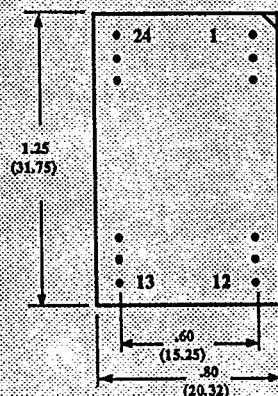
When Ordering Round Pin, Please Add Suffix "R" at the End of a Part Number.

When Ordering Pin Configuration "B", Please Add Suffix "B" at the End of a Part Number.

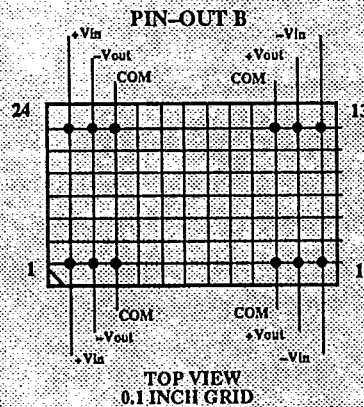
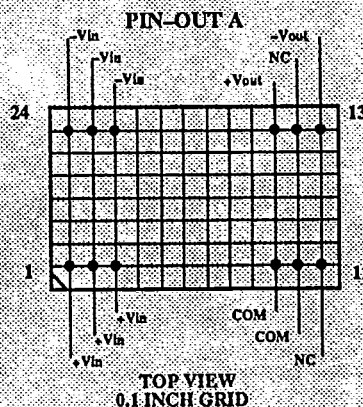
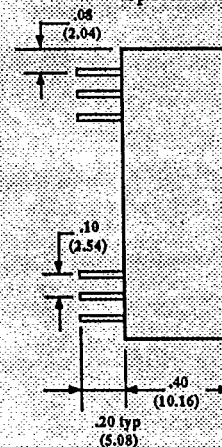
Example: CRS512BR, CUD1212R, CUS505B, CRD1215

ALL DIMENSIONS IN INCHES (MM)

Specifications Subject to Change Without Notice.



Pins are available
with
0.020" Diameter
or
0.025" Square



All Mechanical Tolerances are ±0.020"