



GENERAL FEATURES:

- Input/output isolated
- Low output ripple noise
- Short circuit protection
- Line and load regulation
- Input and output filtering
- High efficiency and reliability
- Low cost
- Custom design available

GENERAL DESCRIPTION

JBM's model D5 DC/DC converter is a 14-pin package power supply, capable of accepting inputs ranging from 5 volts to 24 volts. Outputs for this model typically range from 5 volts to 15 volts. The units are available in standard and custom configurations.

NOTES TO SCHEMATIC

White Dot Pin #1
 Leads: 0.020" Diameter Tinned Copper
 Case Material: Non-Conductive Black Plastic
 Marking: White Epoxy Ink
 Tolerance: .xx +/- 0.020"
 .xxx +/- 0.010"

WIRING DETAILS

Dual Output

Pin #	Connection
1	- V in
7	No Connection
8	Common
9	+ V out
11	- V out
14	+ V in

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature Range: -25 to +71 degrees C
 Storage Temperature Range: -55 to +130 degrees C
 Temperature Coefficient: +/- 0.05% per degree C
 Derating: None
 Cooling: Free Air Convection
 Humidity (Non-Condensing): 20% to 95% RH

ELECTRICAL SPECIFICATIONS

Efficiency (at Full Load): 70% Min
 Isolation Voltage: 500 VDC Min
 Isolation Resistance: 1000 M ohms
 Switching Frequency: 25 KHz Min.
 Burn-In @ Full Load: 100%/ 4 Hrs @ 50 degrees C.

INPUT SPECIFICATIONS

Input Voltage: See Table of Values
 Input Filter: Capacitor Type

OUTPUT SPECIFICATIONS

Output Voltage / Accuracy: See Table of Values
 Output Current: See Table of Values
 Ripple and Noise (20 MHz BW): 50 MV P-P Max.
 Line Regulation*: 1.2% Max.
 Load Regulation**: 8.0% Max.
 Voltage Stability (24 Hour): +/- 0.05% Max.
 Short Circuit Protection: 10 Seconds Max.

* Line Regulation is per 1.0% Change in Input Voltage
 ** Load Regulation is for Load Change from 20% to 100%

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UNREGULATED POWER SUPPLIES JBM PART NO.	INPUT V _{dc}	OUTPUT V _{dc}	OUTPUT CURRENT (mA)	EFFICIENCY AT FULL LOAD %	REGULATION		O/P NOISE mVp-p
					LINE %	LOAD %	
DC01-0505D-D5	5.0	± 5.0	± 75	70	1.2	8.0	50
DC01-0512D-D5	5.0	± 12.0	± 30	70	1.2	8.0	50
DC01-0515D-D5	5.0	± 15.0	± 25	70	1.2	8.0	50
DC01-1205D-D5	12.0	± 5.0	± 75	70	1.2	8.0	50
DC01-1212D-D5	12.0	± 12.0	± 30	70	1.2	8.0	50
DC01-1215D-D5	12.0	± 15.0	± 25	70	1.2	8.0	50
DC01-2405D-D5	24.0	± 5.0	± 75	70	1.2	8.0	50
DC01-2412D-D5	24.0	± 12.0	± 30	70	1.2	8.0	50
DC01-2415D-D5	24.0	± 15.0	± 60	70	1.2	8.0	50

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