



GENERAL FEATURES:

- Small PC Board Footprint
- Input/output isolated
- Low output ripple noise
- Short circuit protection
- Line and load regulation
- Internal Pi (π) filter
- Input and output filtering
- High efficiency and reliability
- Fully encapsulated
- Low cost
- Single and dual output available

GENERAL DESCRIPTION

JBM's model D6 DC/DC converter is an ultra-miniature 6-pin 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 Solderable Copper
 Case Material: Non-Conductive Black Plastic
 Marking: White Epoxy Ink
 Tolerance: .xx + / - 0.020"
 .xxx + / - 0.010"

WIRING DETAILS

Single Output		Dual Output
Pin #	Connection	Connection
1	+ V in	+ V in
2	- V in	- V in
4	- V out	- V out
5	No Connection	Common
6	+ V out	+ V out

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: Pi Network

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 Hours) + / - 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 LINE %	LOAD %	O/P NOISE mVp-p
DC01-0505-D6	5.0	5.0	150	70	1.2	8	50
DC01-0509-D6	5.0	9.0	80	70	1.2	8	50
DC01-0512-D6	5.0	12.0	60	70	1.2	8	50
DC01-0515-D6	5.0	15.0	50	70	1.2	8	50
DC01-1205-D6	12.0	5.0	150	70	1.2	8	50
DC01-1212-D6	12.0	12.0	60	70	1.2	8	50
DC01-0505D-D6	5.0	± 5.0	± 75	70	1.2	8	50
DC01-0512D-D6	5.0	± 12.0	± 30	70	1.2	8	50
DC01-0515D-D6	5.0	± 15.0	± 25	70	1.2	8	50
DC01-1205D-D6	12.0	± 5.0	± 75	70	1.2	8	50
DC01-1212D-D6	12.0	± 12.0	± 30	70	1.2	8	50
DC01-1215D-D6	12.0	± 15.0	± 25	70	1.2	8	50
DC01-2405D-D6	24.0	± 5.0	± 75	70	1.2	8	50
DC01-2412D-D6	24.0	± 12.0	± 30	70	1.2	8	50
DC01-2415D-D6	24.0	± 15.0	± 25	70	1.2	8	50

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