

3B

7.5 WATT WIDE INPUT DC-DC CONVERTERS

Features:

- 7.5W Isolated Output
- Efficiency to 82%
- 2:1 Input Range
- Regulated Outputs
- Pi Input Filter
- Continuous Short Circuit Protection

MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		% EFF.	CASE
				NO LOAD	FULL LOAD		
3B01		5 VDC	1500 mA	7.5 mA	820 mA	76	
3B02		12 VDC	625 mA	7.5 mA	780 mA	80	
3B03		15 VDC	500 mA	7.5 mA	780 mA	80	
3B04	9-18 VDC	±12 VDC	±310 mA	12 mA	775 mA	80	B
3B05		±15 VDC	±250 mA	12 mA	780 mA	80	
3B06		±5 VDC	±750 mA	7.5 mA	820 mA	76	
3B07		3.3 VDC	1500 mA	7.5 mA	557 mA	74	
3B11		5 VDC	1500 mA	5 mA	400 mA	78	
3B12		12 VDC	625 mA	5 mA	380 mA	82	
3B13		15 VDC	500 mA	5 mA	380 mA	82	
3B14	18-36 VDC	±12 VDC	±310 mA	7.5 mA	385 mA	81	B
3B15		±15 VDC	±250 mA	7.5 mA	385 mA	81	
3B16		±5 VDC	±750 mA	7.5 mA	400 mA	78	
3B17		3.3 VDC	1500 mA	5 mA	271 mA	76	
3B21		5 VDC	1500 mA	2 mA	200 mA	78	
3B22		12 VDC	625 mA	2 mA	192 mA	81	
3B23		15 VDC	500 mA	2 mA	192 mA	81	
3B24	36-72 VDC	±12 VDC	±310 mA	3 mA	192 mA	81	B
3B25		±15 VDC	±250 mA	3 mA	192 mA	81	
3B26		±5 VDC	±750 mA	3 mA	200 mA	78	
3B27		3.3 VDC	1500 mA	3 mA	136 mA	76	

NOTE: 1. Nominal Input Voltage 12,24 or 48 VDC



D1 International, Inc.

95 E. Main St. Huntington, NY 11743 USA • 631-673-6866 • Fax: 631-673-6893
www.d1international.com • e-mail: d1intl@aol.com



Specifications

JB SERIES

INPUT SPECIFICATIONS:

Input Voltage Range.....	12V	9-18V
	24V	18-36V
	48V	36-72V
Input Filter.....		Pi Type

OUTPUT SPECIFICATIONS:

Voltage Accuracy.....		± 2.0% max.
Voltage Balance (Dual).....		± 1.0% max.
Temperature Coefficient.....		± 0.05%/°C
Ripple and Noise, 20MHz BW.....	3.3V / 5V.....	100mV p-p max.
	12V / 15V.....	1% p-p max.
Short Circuit Protection.....		Continuous
Line Regulation, Single/Dual ¹		± 0.5%
Load Regulation, Single ²		± 0.5%
	Dual ³	± 1.0%

GENERAL SPECIFICATIONS:

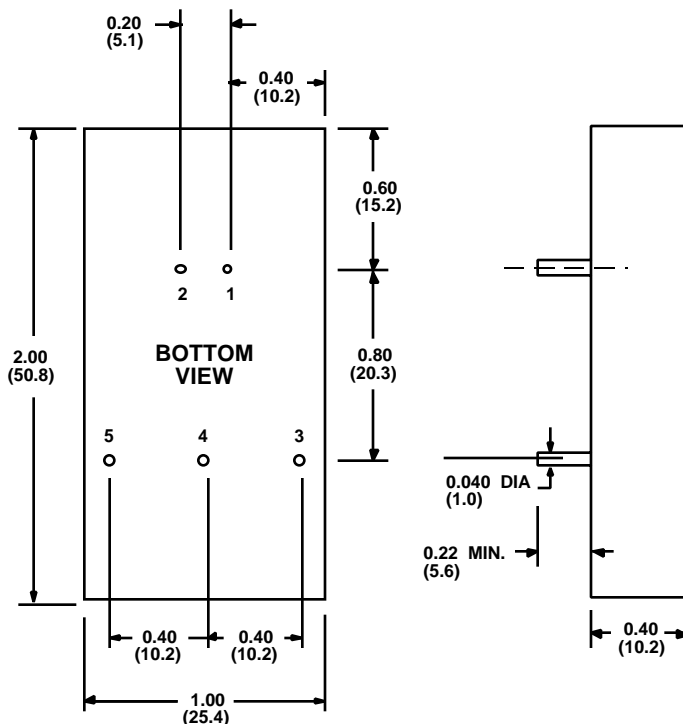
Efficiency.....		See Table
Isolation Voltage.....		1500 VDC min
Isolation Resistance.....		10 ⁹ ohms
Switching Frequency.....		100KHz, min
Operating Temperature Range.....		-25°C to + 71°C
Case Temperature.....		100°C max.
Cooling.....		Free-Air Convection
Storage Temperature Range.....		-40°C to + 100°C
Dimensions2 x 1 x 0.4 inches (50.8 x 25.4 x 10.2mm)
Case Material.....		Black Coated Copper With Non-Conductive Base

NOTE:

1. Measured From High Line to Low Line
2. Measured From Full Load to 10% Load
3. Measured From Full Load to 1/4 Load

CASE B

All Dimensions In Inches(mm)



PIN CONNECTION	
Pin	Function

- | | |
|----|-----------|
| 1. | + Input |
| 2. | - Input |
| 3. | + Output |
| 4. | Common/NP |
| 5. | - Output |

*NP-NO PIN

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