



Rev. 06-2006

### **Features**

- 7.5W Isolated output
   Remote on/off option (suffix "-1")
   Efficiency to 82%
   2:1 Input range
   Regulated outputs

- -Continuous short circuit protection -Meets EN55022 Class B, Conducted
- ·Pi input filter



Model	Input	Output	Output	Input (	Current	
Number	Voltage	Voltage	Current	No Load	Full Load	Efficiency
VBBD7R5-D12-S5	9-18VDC	5VDC	1500mA	7.5mA	820mA	76
VBBD7R5-D12-S12	9-18VDC	12VDC	625mA	7.5mA	780mA	80
VBBD7R5-D12-S15	9-18VDC	15VDC	500mA	7.5mA	780mA	80
VBBD7R5-D12-D12	9-18VDC	±12VDC	±310mA	12mA	775mA	80
VBBD7R5-D12-D15	9-18VDC	±15VDC	±250mA	12mA	780mA	80
VBBD7R5-D12-D5	9-18VDC	±5VDC	±750mA	7.5mA	820mA	76
VBBD7R5-D12-S3R3	9-18VDC	3.3VDC	1500mA	7.5mA	557mA	74
VBBD7R5-D24-S5	18-36VDC	5VDC	1500mA	5mA	400mA	78
VBBD7R5-D24-S12	18-36VDC	12VDC	625mA	5mA	380mA	82
VBBD7R5-D24-S15	18-36VDC	15VDC	500mA	5mA	380mA	82
VBBD7R5-D24-D12	18-36VDC	±12VDC	±310mA	7.5mA	385mA	81
VBBD7R5-D24-D15	18-36VDC	±15VDC	±250mA	7.5mA	385mA	81
VBBD7R5-D24-D5	18-36VDC	±5VDC	±750mA	7.5mA	400mA	78
VBBD7R5-D24-S3R3	18-36VDC	3.3VDC	1500mA	5mA	271mA	76
VBBD7R5-D48-S5	36-72VDC	5VDC	1500mA	2mA	200mA	78
VBBD7R5-D48-S12	36-72VDC	12VDC	625mA	2mA	192mA	81
VBBD7R5-D48-S15	36-72VDC	15VDC	500mA	2mA	192mA	81
VBBD7R5-D48-D12	36-72VDC	±12VDC	±310mA	3mA	192mA	81
VBBD7R5-D48-D15	36-72VDC	±15VDC	±250mA	3mA	192mA	81
VBBD7R5-D48-5	36-72VDC	±5VDC	±750mA	3mA	200mA	78
VBBD7R5-D48-S3R3	36-72VDC	3.3VDC	1500mA	3mA	136mA	76



# **VBBD7R5 Series DC-DC Converters**

Rev. 06-2006

n	p	u	t
	_		

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

# Output

Voltage Accuracy		±2.0%max.	
Voltage Balance (Dual)		±1.0%max.	
Temperature Coefficient		±0.05%/ °C	
Ripple & Noise, 20MHz BW	3.3V/ 5V	100mV p-p max.	
	12V/ 15V	1%p-p max	
Short Circuit Protection		Continuous	
Line Regulation Single/Dual <sup>1</sup>		±0.5%	
Load Regulation Single <sup>2</sup>		±1.5%	
Dual <sup>3</sup>		±1.0%	

## **General Specifications**

Efficiency	see table
Isolation Voltage	1500VDC min.
Isolation Resistance	10 <sup>9</sup> Ohms
Switching Frequency	100KHz, min.
Operating Temperature Range	-25°C to +71°C
Case Temperature	100° max.
Cooling	Free-Air Convection
Storage Temperature Range	-40°C to +100°C
EMI/RFI	Conductive EMI Meet EN55022 Class B
Dimensions	2x1x0.4 inches
	(50.8x25.4x10.2mm)
Case Material	Black Coated Copper With
	Non-Conductive Base
	Non-Conductive Base

- Measured from High Line to Low Line
   Measured from Full Load to10%Load

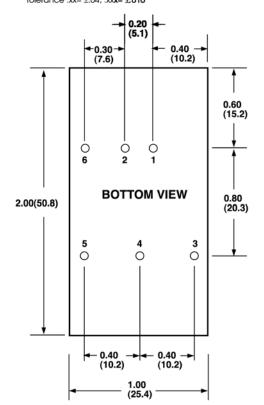
- 3. measured from Full Load to 1/4 Load 4. Suffix "-1" to the Model Number with Remote On/Off

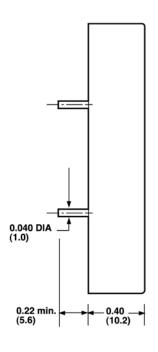


### **VBBD7R5 Series DC-DC Converters**

Rev. 06-2006

All Dimensions In Inches(mm)
Tolerance .xx= ±.04, .xx**x= ±.010** 





### Remote On/Off Control

Logic Compatibility

Ec-On

Ec-Off

Shutdown Idle Current

Control Common

CMOS or Open Collector TIL

>+5.5 VDC or Open Clrcuit

<1.8 VDC

10mA

Referenced to Input Minus

### PIN CONNECTION

Pin	Function
1.	+Input
2.	-Input
3.	+Output
4.	Common/NP
5.	-Output
6.	NP (Remote ON/OFF)

\*NP-NO PIN

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

V-Infinity reserves the right to make changes to its products or to discontinue any product or service without notice, and to advise customers to verify the most up-to-date product information before placing orders. V-Infinity assumes no liability or responsibility for customer's applications using V-Infinity products other than repair or replacing (at V-I's option) V-Infinity products not meeting V-I's published specifications. Nothing will be covered outside of standard product warranty.