V·INFINITY

VBWQ10 Series DC-DC Converters

Rev. 06-2006

Features

- 10W Isolated Output
- Efficiency to 82%
- 4:1 Input Range
- Continuous Short Circuit Protection
- Pi Input Filter
- Meets EN55022 Class A, Conducted

Model Number	Input Voltage	Output Voltage	Output Current	Input Current		Efficiency
				No Load	Full Load	
VBWQ10-Q24-S5	9-36VDC	5VDC	2000mA	15mA	534mA	78%
VBWQ10-Q24-S12	9-36VDC	12VDC	830mA	15mA	520mA	80%
VBWQ10-Q24-S15	9-36VDC	15VDC	666mA	15mA	520mA	80%
VBWQ10-Q24-D12	9-36VDC	±12VDC	±415mA	20mA	520mA	80%
VBWQ10-Q24-D15	9-36VDC	±15VDC	±333mA	20mA	520mA	80%
VBWQ10-Q24-D5	9-36VDC	±5VDC	±1000mA	20mA	520mA	80%
VBWQ10-Q24-S3R3	9-36VDC	3.3VDC	2000mA	15mA	362mA	76%
VBWQ10-Q48-S5	18-72VDC	5VDC	2000mA	10mA	260mA	80%
VBWQ10-Q48-S12	18-72VDC	12VDC	830mA	10mA	257mA	81%
VBWQ10-Q48-S15	18-72VDC	15VDC	666mA	10mA	257mA	81%
VBWQ10-Q48-D12	18-72VDC	±12VDC	±415mA	15mA	257mA	81%
VBWQ10-Q48-D15	18-72VDC	±15VDC	±333mA	15mA	253mA	82%
VBWQ10-Q48-D5	18-72VDC	±5VDC	±1000mA	15mA	253mA	82%
VBWQ10-Q48-S3R3	18-72VDC	3.3VDC	2000mA	10mA	181mA	76%

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Input

Input Voltage Range	24V	9-36V
	48V	18-72V
Input Filter Type		PI Type

Output

Voltage Accuracy Single Output		±1.0% max.
Voltage Accuracy Dual + Output		±1.0% max.
Voltage Accuracy Dual - Output		±1.0% max.
Voltage Balence Dual Output at full load		±1.0% max.
Transient Response	Single 25% Step Load Change	<500µ sec.
Dual FL-1/2 ±1% Error Band		<500µ sec.
Ripple & Noise	20MHz BW,	75mV p-p., max
Temperature Coefficient		±0.02%/°C
Short Circuit Protection		Continuous
Line Regulation[1]	Single/Dual Output	±0.2% max
Load Regulation[2]	Single/Dual Output	±1.0% max

General Specifications

Efficiency	see table
Isolation Voltage	500VDC min.
Isolation Resistance	10^9 ohms min
Switching Frequency	300KHz, Type
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
EMI/RFI	Six sided Continuous Shield
Dimensions	2.0x1.0x0.4 inches (50.8x25.4x10.2mm)
Case Material	Black Coated Copper with Non-Conductive Base

NOTES:

1. Measured from high line to low line
2. Measured from full load to 1/4 load

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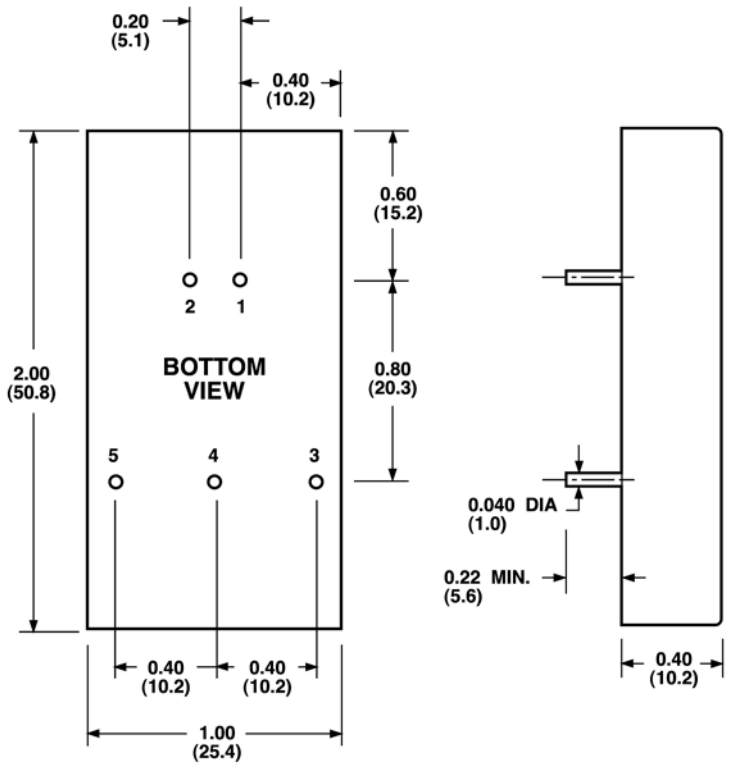
All Dimensions In Inches(mm)
Tolerance .xx= ±.04, .xxx= ±.010



PIN CONNECTION

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

NP*-NO PIN ON SINGLE OUTPUT

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