

CHB150W

S E R I E S

99 TO 150 WATT
4:1 INPUT RANGE
DC-DC CONVERTERS

NEW



Features

- 99-150W Isolated Output
- 4 : 1 Input Wide Range
- Half-Brick Package
- Efficiency to 90%
- Regulated Outputs
- Remote ON/OFF
- OTP/OVP/OCF
- Continuous Short Circuit Protection

MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT		INPUT CURRENT		% EFF.	SIZE
			MIN.	MAX.	NO LOAD	FULL LOAD		
CHB150W-24S3V3	9-36 VDC	3.3VDC	0mA	30 A	200mA	4741mA	85	Half-Brick
CHB150W-24S05	9-36 VDC	5.0VDC	0mA	30 A	200mA	7022mA	87	Half-Brick
CHB150W-24S12	9-36 VDC	12 VDC	0mA	12.5 A	100mA	6944mA	88	Half-Brick
CHB150W-24S15	9-36 VDC	15 VDC	0mA	10 A	100mA	6944mA	88	Half-Brick
CHB150W-24S24	9-36 VDC	24 VDC	0mA	6.5 A	100mA	7022mA	88	Half-Brick
CHB150W-48S3V3	18-75VDC	3.3VDC	0mA	30 A	100mA	2371mA	87	Half-Brick
CHB150W-48S05	18-75VDC	5.0VDC	0mA	30 A	100mA	3511mA	89	Half-Brick
CHB150W-48S12	18-75VDC	12 VDC	0mA	12.5 A	50mA	3472mA	90	Half-Brick
CHB150W-48S15	18-75VDC	15 VDC	0mA	10 A	50mA	3472mA	90	Half-Brick
CHB150W-48S24	18-75VDC	24 VDC	0mA	6.5 A	50mA	3511mA	89	Half-Brick

NOTE : 1. Nominal Input Voltage 24, 48 VDC

Specifications

INPUT SPECIFICATIONS:

Input Voltage Range.....24V.....9-36V
48V.....18-75V
Undervoltage lockout24Vin power up.....8.8V
24Vin power down8.0V
48Vin power up.....17V
48Vin power down16V
Positive Logic Remote ON/OFF^{4,5}
Input FilterPI Type

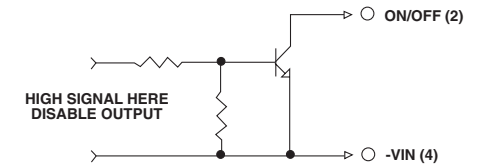
OUTPUT SPECIFICATIONS:

Voltage Accuracy :±1.5% max.
Transient Response :25% Step Load Change.....<500μ sec.
External Trim Adj. Range±10%
Ripple & Noise, 20MHz BW
3.3V & 5V40mV RMS, max.
100mV pk-pk, max.
12V & 15V60mV RMS, max.
150mV pk-pk, max.
24V100mV RMS, max.
240mV pk-pk, max.
Temperature Coefficient.....±0.03%/°C
Short Circuit Protection.....Continuous
Line Regulation¹±0.2% max.
Load Regulation²±0.2% max.
Over Voltage Protection trip Range, % Vo nom.....115-140%
Current Limit110% ~140% Nominal Output

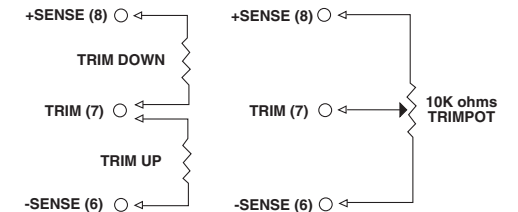
GENERAL SPECIFICATIONS:

Efficiency.....See Table
Isolation VoltageInput/Output.....1500VDC min.
Input/Case.....1500VDC min.
Output/Case.....1500VDC min.
Isolation Resistance10⁹ ohm min.
Switching Frequency250KHz, Typ.
Operating Case Temperature-40°C to 100°C
Storage Temperature-55°C to +105°C
Thermal Shutdown, Case Temp.110°C Typ.
Dimensions2.28x2.40x0.52 inches
(57.9x61.0x13.2 mm)
Case Material.....Aluminum Base Plate with Pastic Case

Remote On/Off Control



External Output Trim



PIN CONNECTION

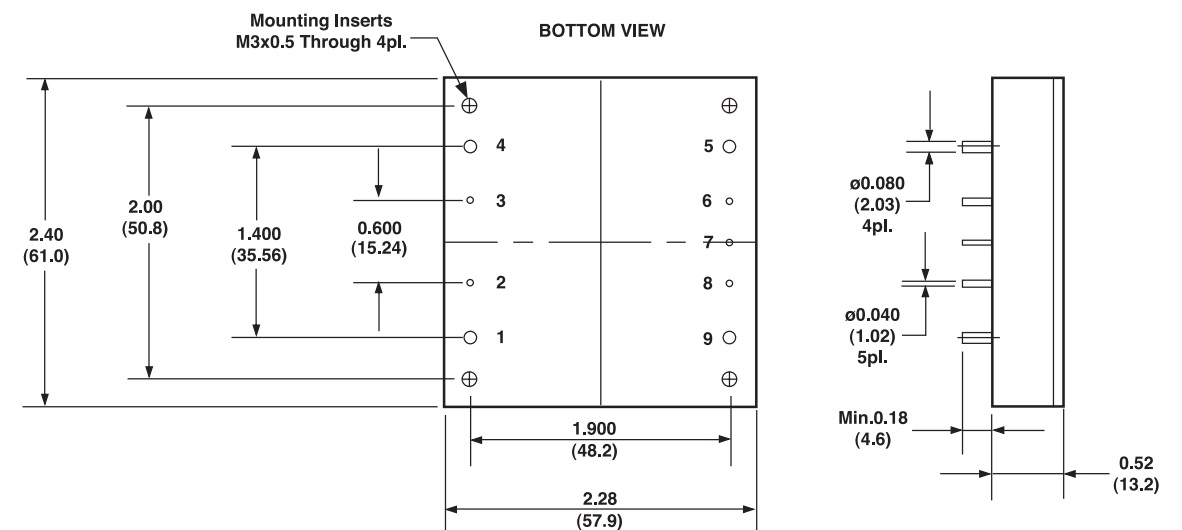
Pin	Function
1	+V Input
2	ON/OFF
3	CASE
4	-V Input
5	-V Output
6	-Sense
7	Trim
8	+Sense
9	+Vout

NOTE:

1. Measured From High Line to Low Line
2. Measured From Full Load to Zero Load
3. Output Ripple and Noise measured with 10uF tantalum and 1uF Ceramic capacitor across output
4. Logic Compatibility Open Collector ref to -Input
Module ON > 3.5Vdc or Open Circuit
Module OFF < 1.8Vdc
5. Suffix "N" to the Model Number with Negative Logic Remote ON/OFF
Module ON < 1.8Vdc
Module OFF >3.5Vdc or Open Circuit

CASE HB

All Dimensions In Inches(mm)
Tolerance Inches: x.xx= ±0.02, x.xxx= ±0.010
Millimeters: x.x= ±0.5, x.xx= ±0.25



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

Mouser Electronics

Authorized Distributor

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Cincon:

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