CHB75-Dual

S E R I E S

75 WATT DUAL OUTPUTS DC-DC CONVERTERS

E176177

RoHS

Features

- 75W Isolated Dual Output
- Half Brick Package
- Regulated Outputs
- Efficiency to 84%
- 400KHz Switching Frequency
- Total Output Power 75W with 15A Maximum Per Channel
- Continuous Short Circuit Protection

MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT MIN.	OUTPUT CURRENT MAX.	INPUT CURRENT NO LOAD	INPUT CURRENT FULL LOAD	% EFF.	SIZE
CHB75-24D05-3V3	18-36VDC	Vo1=5V Vo2=3.3V	0A 0A	15A 15A	50 mA	3765 mA	83% (2)	Half-Brick
CHB75-24D05-2V5	18-36VDC	Vo1=5V Vo2=2.5V	0A 0A	15A 15A	50 mA	3765 mA	83% (2)	Half-Brick
CHB75-48D05-3V3	36-75VDC	Vo1=5V Vo2=3.3V	0A 0A	15A 15A	30 mA	1860 mA	84% (2)	Half-Brick
CHB75-48D05-2V5	36-75VDC	Vo1=5V Vo2=2.5V	0A 0A	15A 15A	30 mA	1860 mA	84% (2)	Half-Brick

NOTE: 1. Nominal Input Voltage12, 24 or 48 VDC

Specifications

INPUT SPECIFICATIONS:

Input Voltage Range.....24V.....18-36V
48V..... 36-75V
Undervoltage lockout .....24Vin power up.....17V
power down 15.5V
48Vin power up 34V
power down 32.5V
Positive Logic Remote ON/OFF[4,5]
Input Filter ..... PI Type

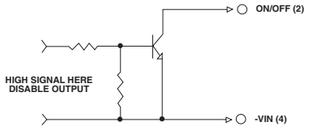
OUTPUT SPECIFICATIONS:

Voltage Accuracy : .....±2% max.
Transient Response :25% Step Load Change.....<500µ sec.
External Trim Adj. Range .....±5%
Ripple & Noise, 20MHz BW[6]
3.3V & 5V & 2.5V..... 40mV RMS., max.
100mV pk-pk, max.
Temperature Coefficient..... ±0.03%/°C
Short Circuit Protection..... Continuous
Line Regulation[1] .....±0.2% max.
Load Regulation[2] .....±0.5% max.
Over Voltage Protection trip Range, % Vo nom.....115-140%
Current Limit .....110% ~140% Nominal Output

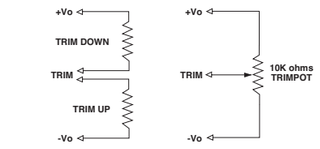
GENERAL SPECIFICATIONS:

Efficiency.....See Table
Isolation Voltage .....Input/Output.....1500VDC min.
Input/Case.....1500VDC min.
Output/Case.....1500VDC min.
Isolation Resistance .....10^7 ohm min.
Switching Frequency .....400KHz, Typ.
Operating Case Temperature .....-40°C to 100°C
Storage Temperature .....-55°C to +105°C
Thermal Shutdown, Case Temp. .....100°C Typ.
Dimensions .....2.28x2.40x0.52 inches
(57.9x61.0x13.2 mm)
Case Material..... Aluminum Baseplate with Plastic Case
Weight.....108g

Remote On/Off Control



External Output Trim



PIN CONNECTION

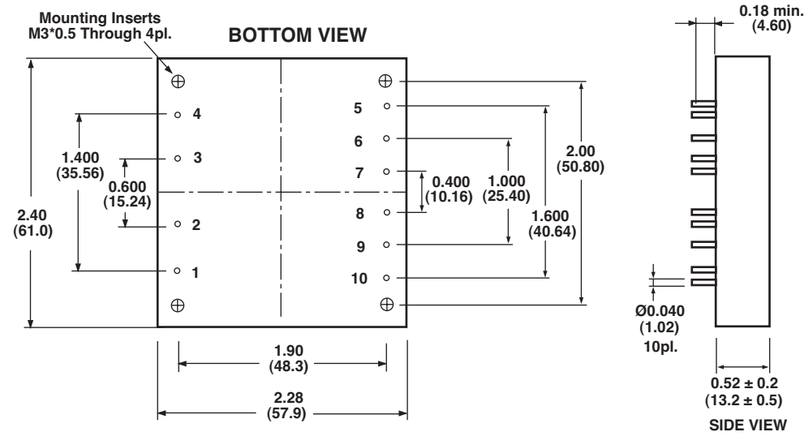
Pin	Function
1	+Vin
2	ON/OFF
3	CASE
4	-V in
5	+Vo2
6	-Vo2
7	Vo2 Trim
8	+Vo1
9	-Vo1
10	Vo1 Trim

NOTE:

1. Measured From High Line to Low Line.
2. Measured From Full Load to Min. Load.
3. Measured with Output Current on Output1 (Vo1)
4. Logic Compatibility ..... Open Collector Ref. to -Input
   Module ON ..... Open Circuit
   Module OFF ..... < 0.8Vdc
5. Suffix "N" to the Model Number with Negative Logic Remote ON/OFF.
6. The Output Noise is Measured with 10 µF Tantalum and 1µF Ceramic Capacitor across output.

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.