

查询"CQB100W-48S3V3"供应商

CQB100W

SERIES

100 WATT

4:1 INPUT RANGE

DC-DC CONVERTERS



Features

- 100W Isolated Output
 - Quarter-Brick Package
 - 4 : 1 Input Range
 - Efficiency up to 88%
- Regulated Outputs
 - Continuous Short Circuit Protection
 - OTP / OVP / OCP
 - 1500VDC Isolation

MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT		INPUT CURRENT		% EFF.	SIZE
			MIN.	MAX.	NO LOAD	FULL LOAD		
CQB100W-48S3V3	18-75VDC	3.3VDC	0mA	30 A	60mA	2344mA	88	Quarter-Brick
CQB100W-48S05	18-75VDC	5.0VDC	0mA	20 A	60mA	2367mA	88	Quarter-Brick
CQB100W-48S12	18-75VDC	12 VDC	0mA	8.3A	30mA	2358mA	88	Quarter-Brick
CQB100W-48S15	18-75VDC	15 VDC	0mA	6.7 A	30mA	2379mA	88	Quarter-Brick
CQB100W-48S24	18-75VDC	24 VDC	0mA	4.17 A	30mA	2369mA	88	Quarter-Brick

NOTE: 1. Nominal Input Voltage 48 VDC



NEW

Specifications

INPUT SPECIFICATIONS:

Input Voltage Range.....48V.....18 - 75V
Under voltage lockout48Vin power up.....17V typ.
power down.....16V typ.
Input FilterPi Type
Positive Logic Remote ON/OFF (see note 4 & 5)

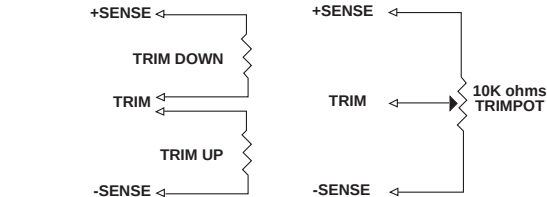
OUTPUT SPECIFICATIONS:

Voltage Accuracy :±1.5% max.
Transient Response :75% to 100% Step Load Change
Error Band.....3.3V±6% Vout, Others±5% Vout
Recover Time.....<500uS
External Trim Adj. Range⁶±10%
Ripple & Noise, 20MHz BW³
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% ~160% 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.
Power De-rating Curve.....refer to Application Note
Operating Case Temperature-40°C to +100°C
Storage Temperature Range.....-40°C to +105°C
Thermal Shutdown, Case Temp.110°C Typ.
Dimensions.....1.45 x 2.28 x 0.50 inches(36.8 x 57.9 x 12.7 mm)
Case MaterialAluminum Base-plate with Plastic Case
Weight.....TBD

External Output Trim



PIN CONNECTION

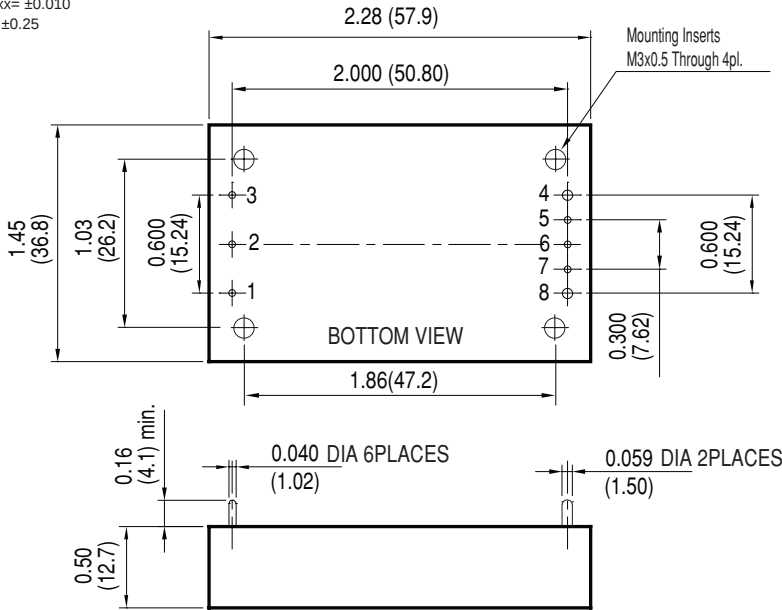
Pin	Function
1	+V Input
2	ON/OFF
3	-V Input
4	-V Output
5	-Sense
6	Trim
7	+Sense
8	+Vout

NOTE:

1. Measured From High Line to Low Line
2. Measured From Full Load to min. Load
3. The output noise is measured with 10uF tantalum capacitor and 1uF ceramic capacitor across output
4. Logic Compatibility Open Collector ref to -Input
Module ON>3.5Vdc to 75Vdc or Open Circuit
Module OFF< 1.2Vdc
5. Suffix "N" to the Model Number with Negative Logic Remote ON/OFF
Module ON< 1.2Vdc
Module OFF>3.5Vdc to 75Vdc or Open Circuit
6. Trim-up.....connect a resistor between the trim pin and +Sense
Trim-down.....connect a resistor between the trim pin and -Sense

SIZE QB

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.