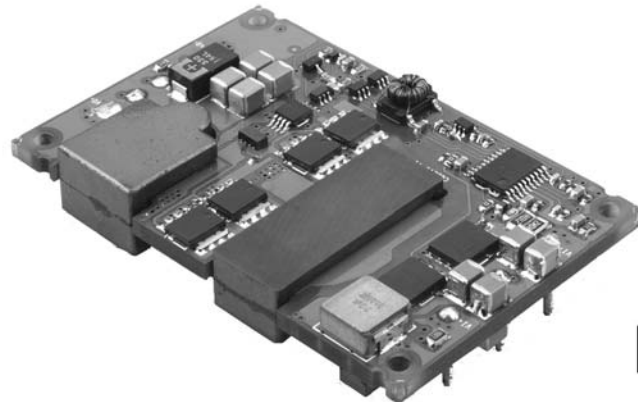


PART NUMBER: VQB125 series

DESCRIPTION: DC/DC converter

features

- 40-125 W isolated output
- efficiency to 92%
- fixed switching frequency
- monotonic start-up into pre-biased load
- input under-voltage protection
- over-temperature protection
- over current protection
- remote ON/OFF
- industry standard quarter-brick package
- fully isolated 2250 VDC



model number	input voltage	output voltage	output current	input current		efficiency
				no load	full load	
VQB125-D48-S1	36-75 VDC	1.0 VDC	40 A	60 mA	1004 mA	83%
VQB125-D48-S1R2	36-75 VDC	1.2 VDC	40 A	60 mA	1176 mA	85%
VQB125-D48-S1R5	36-75 VDC	1.5 VDC	40 A	60 mA	1436 mA	87%
VQB125-D48-S1R8	36-75 VDC	1.8 VDC	40 A	60 mA	1705 mA	88%
VQB125-D48-S2R5	36-75 VDC	2.5 VDC	40 A	60 mA	2341 mA	89%
VQB125-D48-S3R3	36-75 VDC	3.3 VDC	35 A	60 mA	2704 mA	89%
VQB125-D48-S5	36-75 VDC	5 VDC	25 A	60 mA	2894 mA	90%
VQB125-D48-S9	36-75 VDC	9 VDC	13 A	60 mA	2679 mA	91%
VQB125-D48-S12	36-75 VDC	12 VDC	10 A	60 mA	2717 mA	92%



PART NUMBER: VQB125 series

DESCRIPTION: DC/DC converter

INPUT

input voltage range	48V:	36-75V
under voltage lockout	48 Vin power up	35 V
	48 Vin power down	33 V
input filter		LC type
logic compatibility	CMOS or open collector TTL	
module ON	open circuit or logic high	
module OFF	<12 VDC	

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OUTPUT

voltage accuracy		±1.0% max.
transient response:	25% step load change	<500 μS
ripple & noise	20MHz BW	100 mV p-p max.
temperature coefficient		±0.03%/°C max.
line regulation ¹	single/dual	±0.2% max.
load regulation ²	single/dual	±0.5% max.
over-voltage protection		115-140%
output current limit	% nom. output	110-140%
short circuit protection	continuous/hiccup	
external trim adj.		±10%

GENERAL SPECIFICATIONS

efficiency	see table	
isolation voltage	2250VDC min.	
isolation resistance	10 ⁷ Ohm min.	
switching frequency	250KHz, typ.	
over temperature protection	120°C typ.	
operating temp. range	-40°C to 85°C	
storage temp.	-40°C to 125°C	
dimensions	2.3x1.45x0.36 inches (58.4x36.8x9.2mm)	
weight	50 g	

NOTES:

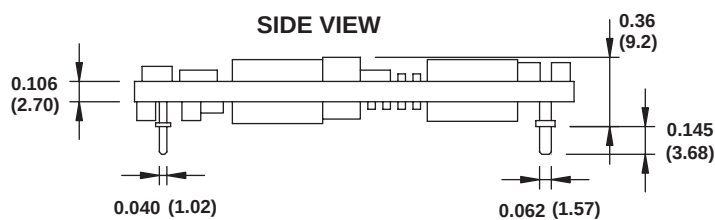
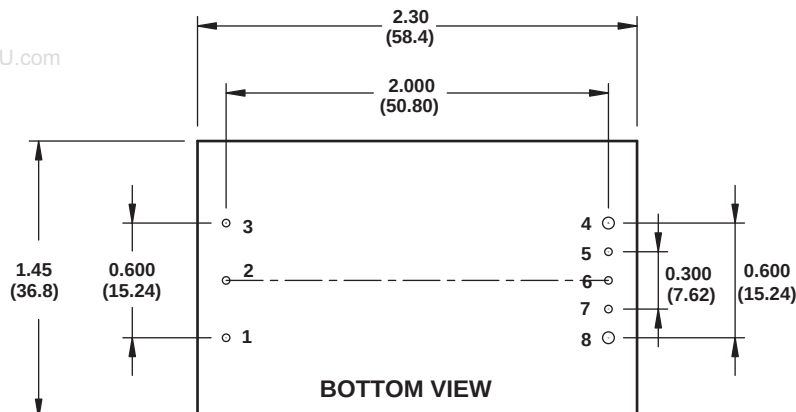
1. measured from high line to low line
2. measured from full load to 1/4 load
3. suffix "N" to the model number with negative logic remote ON/OFF
module ON <1.2 VDC
module OFF open circuit or logic high
4. output ripple and noise is measured with 10 μF tantalum and 1 μF ceramic capacitor across output.

PART NUMBER: VQB125 series

DESCRIPTION: DC/DC converter

DIMENSIONS (mm)

All Dimensions in Inches(mm)
 Tolerance .xx ±0.2 (.x ±0.5)
 .xxx ±0.10 (.xx ± 0.25)



PIN CONNECTION

Pin	Function
1	+Vin
2	ON/OFF
3	-Vin
4	-Vout
5	-SENSE
6	Trim
7	+SENSE
8	+Vout

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

DERATING CURVE

