

3BB Series

7.5W DC-DC Converters

Features

- 7.5W Isolated Output
- Remote On/Off option
- 82% Efficiency
- 2:1 Input Range
- Regulated Outputs
- Continuous Short Circuit Protection
- Conductive EMI Meet EN55022 Class B
- Pi Input Filter

Model Number	Input Voltage	Output Voltage	Output Current	Input Current		% Efficiency	Case
				No Load	Full Load		
3BB-01	9-18 VDC	5 VDC	1500 mA	7.5 mA	820 mA	76	B
3BB-02		12 VDC	625 mA	7.5 mA	780 mA	80	
3BB-03		15 VDC	500 mA	7.5 mA	780 mA	80	
3BB-04		±12 VDC	±310 mA	12 mA	775 mA	80	
3BB-05		±15 VDC	±250 mA	12 mA	780 mA	80	
3BB-06		±5 VDC	±750 mA	7.5 mA	820 mA	76	
3BB-07		3.3 VDC	1500 mA	7.5 mA	557 mA	74	
3BB-11	18-36 VDC	5 VDC	1500 mA	5 mA	400 mA	78	B
3BB-12		12 VDC	625 mA	5 mA	380 mA	82	
3BB-13		15 VDC	500 mA	5 mA	380 mA	82	
3BB-14		±12 VDC	±310 mA	7.5 mA	385 mA	81	
3BB-15		±15 VDC	±250 mA	7.5 mA	385 mA	81	
3BB-16		±5 VDC	±750 mA	7.5 mA	400 mA	78	
3BB-17		3.3 VDC	1500mA	5 mA	271 mA	76	
3BB-21	36-72VDC	5 VDC	1500 mA	2 mA	200 mA	78	B
3BB-22		12 VDC	625 mA	2 mA	192 mA	81	
3BB-23		15 VDC	500 mA	2 mA	192 mA	81	
3BB-24		±12 VDC	±310 mA	3 mA	192 mA	81	
3BB-25		±15 VDC	±250 mA	3 mA	192 mA	81	
3BB-26		±5 VDC	±750 mA	3 mA	200 mA	78	
3BB-27		3.3 VDC	1500 mA	3 mA	136 mA	76	

Note: Nominal Input Voltage 12, 24, 28 or 48VDC

Specifications

Input Specifications:

Input Voltage Range.....	12V.....	9-18V
	24V.....	18-36V
	48V.....	36-72V
Input Filter.....	Pi Type	

Output Specifications:

Voltage Accuracy.....	+/- 2.0 % max.	
Voltage Balance (Dual).....	+/- 1.0 % max.	
Ripple & Noise, 20 MHz BW.....	3.3V / 5V.....	100 mV p-p max.
	12V / 15V.....	1 % p-p max.
Temperature Coefficient.....	+/- 0.05 % /°C max.	
Short Circuit Protection.....	Continuous	
Line Regulation ¹ Single / Dual Output.....	+/- 0.5 % max.	
Load Regulation Single ²	+/- 0.5 % max.	
	Dual ³	+/- 1.0 % max.

Efficiency.....	see table
Isolation Resistance.....	100Mohm
Switching Frequency.....	100 KHz, min.
Operating Temperature Range.....	-25° C ~ +71° C
Case Temperature.....	100° C max.
Cooling.....	Free air convection
Storage Temperature Range.....	-40° C ~ +100° C
Isolation Voltage.....	1500VDC min.
Dimensions.....	2" x 1" x 0.4" (50.8 x 25.4 x 10.2 mm)
Case Material.....	Black Coated Copper with Non-conducted base

Note:

1. Measured from high line to low line
2. Measured from full load to 10% load
3. Measured from full load to ¼load
4. Suffix "T" to the Model Number with Remote On/Off

General Specifications :

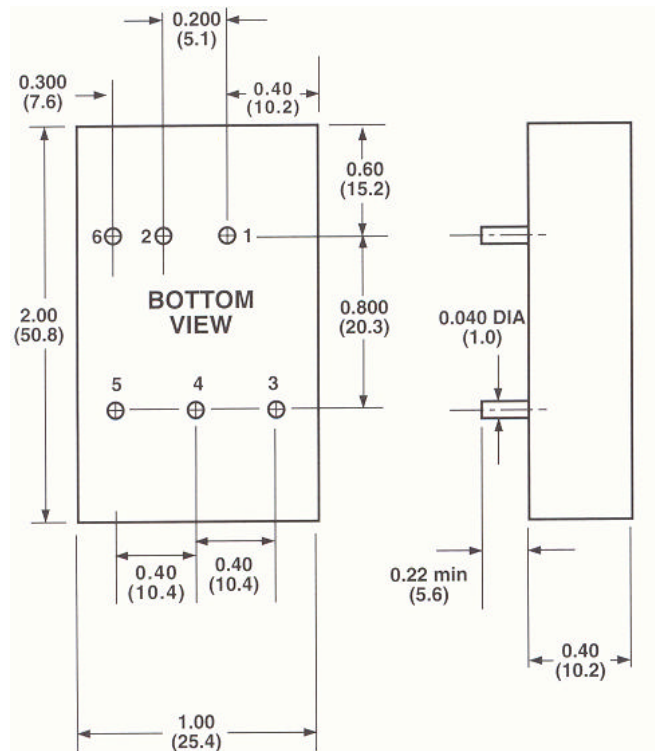
Outline Information and Pin-out

PIN CONNECTION	
Pin	Function
1	+ Input
2	- Input
3	+ Output
4	Common / NP
5	- Output
6	NP (Remote control)

* NP---No Pin

Remote On/Off Control	
Logic compatibility	CMOS or Open collector TTL
Ec-0n	>5.5 Vdc or open circuit
Ec-Off	<1.8 Vdc
Shutdown Idle current	10mA
Input resistance	100K ohms (Ein 0Vdc to 9Vdc)
Control common	Referenced to Input minus

All dimensions are in inches [mm]



The information and specifications contained in this brief are believed to be accurate and reliable at the time of publication. Specifications are subject to change without notice. Refer to product specification sheet for performance characteristics and application guidelines.

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