

3CB Series

15W DC-DC Converters

Features

- 15W Isolation Output
- 2:1 Input Range
- Regulated Outputs
- 82% Efficiency
- Six –Sided Shield
- Low Ripple and Noise
- 200KHz Switching Frequency
- Pi Input Filter
- Continuous Short Circuit Protection
- Conductive EMI Meet EN55022 Class B

Model Number	Input Voltage	Output Voltage	Output Current	Input Current		% Efficiency	Case
				No Load	Full Load		
3CB-01	9-18 VDC	5 VDC	3000 mA	30 mA	1660 mA	75	C/S
3CB-02		12 VDC	1250 mA	30 mA	1625 mA	78	
3CB-03		15 VDC	1000 mA	30 mA	1625 mA	78	
3CB-04		±12 VDC	±625 mA	35 mA	1620 mA	77	
3CB-05		±15 VDC	±500 mA	35 mA	1620 mA	77	
3CB-06		±5 VDC	±1500 mA	35 mA	1620 mA	77	
3CB-07		3.3 VDC	3000 mA	30 mA	1178 mA	70	
3CB-11	18-36 VDC	5 VDC	3000 mA	15 mA	812 mA	78	C/S
3CB-12		12 VDC	1250 mA	20 mA	772 mA	81	
3CB-13		15 VDC	1000 mA	20 mA	772 mA	81	
3CB-14		±12 VDC	±625 mA	25 mA	780 mA	80	
3CB-15		±15 VDC	±500 mA	25 mA	780 mA	80	
3CB-16		±5 VDC	±1500 mA	25 mA	780 mA	80	
3CB-17		3.3 VDC	3000mA	15 mA	557 mA	74	
3CB-21	36-72VDC	5 VDC	3000 mA	10 mA	390 mA	80	C/S
3CB-22		12 VDC	1250 mA	15 mA	381 mA	82	
3CB-23		15 VDC	1000 mA	15 mA	381 mA	82	
3CB-24		±12 VDC	±625 mA	20 mA	386 mA	81	
3CB-25		±15 VDC	±500 mA	20 mA	386 mA	81	
3CB-26		±5 VDC	±1500 mA	20 mA	386 mA	81	
3CB-27		3.3 VDC	3000 mA	20 mA	271 mA	76	

Note: Nominal Input Voltage 12, 24, 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.....	Single output.....	+/- 1.0 % max.
	Dual + output.....	+/- 1.0 % max.
	Dual – output.....	+/- 3.0 % max.

Voltage Balance (Dual).....+/- 1.0 % max.

Ripple & Noise, 20 MHz BW.....75 mV p-p max.

Temperature Coefficient.....+/- 0.02 % /°C max.

Short Circuit Protection.....Indefinite & current limit

Line Regulation ¹ Single / Dual Output.....+/- 0.2 % max.

Load Regulation ² Single / Dual Output.....+/- 1.0 % max.

General Specifications :

Efficiency.....see table

Isolation Resistance.....100Mohm

Switching Frequency.....200 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.....500VDC min.

EMI / RFI.....Conductive EMI meet EN55022 class B

Dimensions.....2" x 2" x 0.4 "(50.8 x 50.8 x 10.2 mm)

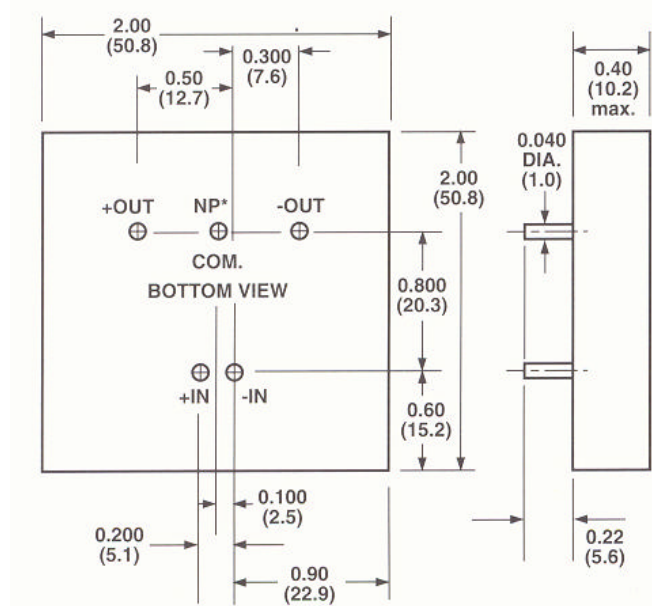
Case Material.....Black Coated Copper with
Non-conducted base

Note:

1. Measured from high line to low line
2. Measured from full load to ¼load
3. Determine the correct fuse size by calculating the max. DC current drain at low input, max. load and then adding 20 to 25% to get desired fuse size.
4. Alternative Pin configuration suffix "S"

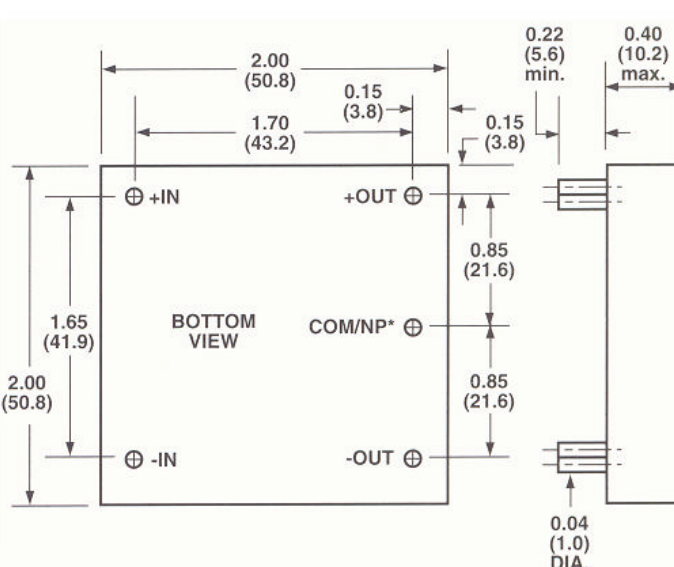
Outline Information and Pin-out

Standard Pin Configuration "C"



- NP---No Pin
- All dimensions in inches(mm)

Alternative Pin Configuration Suffix "S"



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.