

BTCPower™ Broadband TelCom Power, Inc.

Redefining "Current" Limits In Power Conversion

2C Series

5-6W DC-DC Converters

Features

- High performance
- Regulated Outputs
- 60% Efficiency
- Pi Input Filter
- Low Ripple and Noise
- 500 VDC Isolation

Model Number	Input Voltage	Output Voltage	Output Current	Input Current		Case	Alt Pin Out
				No Load	Full Load		
2C-01	5 VDC	5 VDC	1000 mA	60 mA	1700 mA	C	S
2C-02		12 VDC	470 mA	70 mA	1750 mA		
2C-03		15 VDC	400 mA	70 mA	1800 mA		
2C-04		±12 VDC	±230 mA	130 mA	1700 mA		
2C-05		±15 VDC	±190 mA	140 mA	1700 mA		
2C-11	12 VDC	5 VDC	1000 mA	40 mA	690 mA	C	S
2C-12		12 VDC	470 mA	40 mA	700 mA		
2C-13		15 VDC	400 mA	40 mA	750 mA		
2C-14		±12 VDC	±230 mA	60 mA	710 mA		
2C-15		±15 VDC	±190 mA	60 mA	710 mA		
2C-21	24 VDC	5 VDC	1000 mA	20 mA	350 mA	C	S
2C-22		12 VDC	470 mA	20 mA	340 mA		
2C-23		15 VDC	400 mA	20 mA	360 mA		
2C-24		±12 VDC	±230 mA	35 mA	360 mA		
2C-25		±15 VDC	±190 mA	35 mA	360 mA		
2C-31	28 VDC	5 VDC	1000 mA	20 mA	290 mA	C	S
2C-32		12 VDC	470 mA	20 mA	300 mA		
2C-33		15 VDC	400 mA	20 mA	310 mA		
2C-34		±12 VDC	±230 mA	25 mA	290 mA		
2C-35		±15 VDC	±190 mA	25 mA	290 mA		
2C-41	48 VDC	5 VDC	1000 mA	14 mA	170 mA	C	S
2C-42		12 VDC	470 mA	14 mA	170 mA		
2C-43		15 VDC	400 mA	14 mA	180 mA		
2C-44		±12 VDC	±230 mA	20 mA	170 mA		
2C-45		±15 VDC	±190 mA	20 mA	170 mA		

Note: Alternative pin-out version. To order, suffix an "S" to the standard model number.



Specifications

Input Specifications:

Input Voltage Range.....+/- 10%

Input Filter.....Pi Type

Output Specifications:

Voltage Accuracy.....+/- 1.0 % max.

Voltage Balance (Dual).....+/- 0.5 % max.

Ripple & Noise, 20 MHz BW

Single Output..... 50 mV p-p max.

Dual Output.....35mV p-p max.

Temperature Coefficient

Single Output +/- 0.02 % /°C max.

Dual Output +/- 0.01 % /°C max.

Short Circuit Protection.....Short term

Line Regulation +/- 0.02 % max.

Load Regulation +/- 0.05 % max.

General Specifications :

Efficiency.....60%

Isolation Capacitance.....80pF

Isolation Voltage.....500VDC min.

Isolation Resistance.....100Mohm

Switching Frequency.....20 KHz, min.

Operating Temperature Range.....-25° C ~ +71° C

Case Temperature (plastic case).....95° C max.

(copper case).....100° C max.

Cooling.....Free air convection

Storage Temperature Range.....-40° C ~ +100° C

Isolation Voltage.....500VDC min.

EMI / RFI.....Six-sided continuous shield

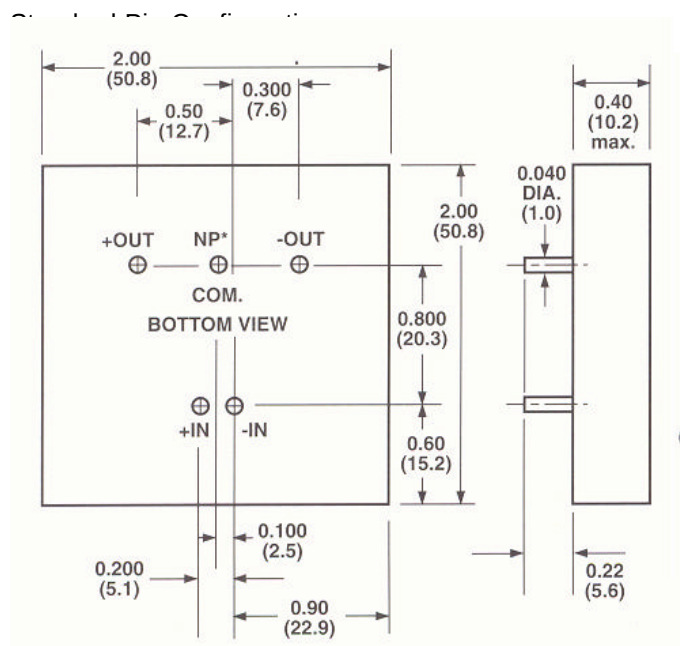
Dimensions.....2" x 2" x 0.4 "(50.8 x 50.8 x 10.2 mm)

Case Material (Standard Models).....Non-Conductive Black Plastic

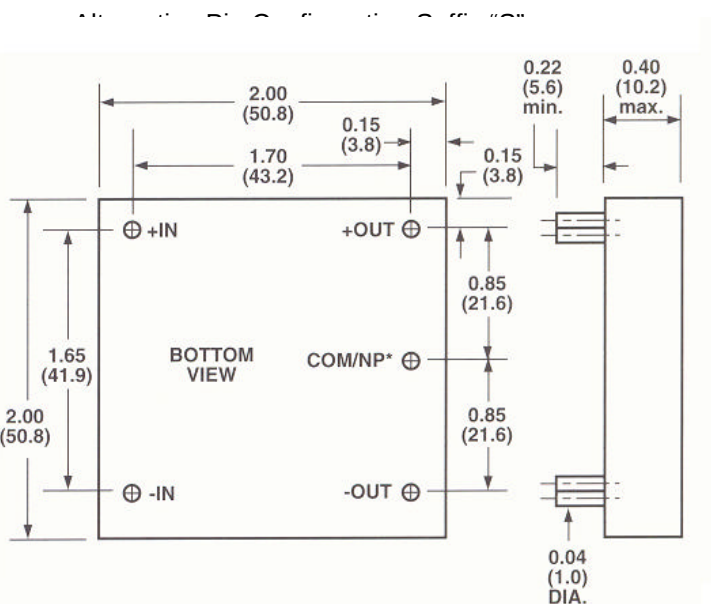
(Suffix "M" Models).....Black Coated Copper

with Non-conducted base

Outline Information and Pin-out



* NP---No Pin



Input Voltage	60% FL	80% FL	100% FL
5V	4.4-6.5V	4.5V-6.0V	4.65-5.5V
12V	10.56-15.6V	10.8V-14.4V	11.16V-13.2V
24V	21.12V-31.2V	21.6V-28.8V	22.32V-26.4V
28V	24.64V-36.4V	25.2V-33.6V	26.04V-30.8V
48V	42.24-62.4V	43.2-57.6V	44.64-52.8V

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.

All Dimensions in Inches(mm)