

BTCPower™ Broadband TelCom Power, Inc.

Redefining "Current" Limits In Power Conversion

2A Series

1.5W DC-DC Converters

Features

- 24-Pin DIP Package
- Regulated Outputs
- 50% Efficiency
- Pi Input Filter
- Low Ripple and Noise

Model Number	Input Voltage	Output Voltage	Output Current	Input Current		% Efficiency	Case
				No Load	Full Load		
2A-01	5VDC	5 VDC	300 mA	110 mA	620 mA	50	A
2A-02		12 VDC	125 mA		550 mA	50	A
2A-03		15 VDC	100 mA		550 mA	50	A
2A-04		±12 VDC	±60 mA		550 mA	50	A
2A-05		±15 VDC	±50 mA		550 mA	50	A
2A-11	12VDC	5 VDC	300 mA	40 mA	260 mA	53	A
2A-12		12 VDC	125 mA		215 mA	53	A
2A-13		15 VDC	100 mA		215 mA	54	A
2A-14		±12 VDC	±60 mA		215 mA	54	A
2A-15		±15 VDC	±50 mA		215 mA	54	A
2A-21	24VDC	5 VDC	300 mA	20 mA	130 mA	55	A
2A-22		12 VDC	125 mA		115 mA	55	A
2A-23		15 VDC	100 mA		115 mA	56	A
2A-24		±12 VDC	±60 mA		115 mA	56	A
2A-25		±15 VDC	±50 mA		115 mA	56	A
2A-31	28VDC	5 VDC	300 mA	20 mA	110 mA	56	A
2A-32		12 VDC	125 mA		100 mA	56	A
2A-33		15 VDC	100 mA		100 mA	56	A
2A-34		±12 VDC	±60 mA		100 mA	56	A
2A-35		±15 VDC	±50 mA		100 mA	56	A
2A-41	48VDC	5 VDC	300 mA	15 mA	65 mA	60	A
2A-42		12 VDC	125 mA		60 mA	60	A
2A-43		15 VDC	100 mA		60 mA	62	A
2A-44		±12 VDC	±60 mA		60 mA	62	A
2A-45		±15 VDC	±50 mA		60 mA	62	A

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

Specifications

Input Specifications:

Input Voltage Range.....10%

Input Filter.....Pi Type

Output Specifications:

Voltage Accuracy.....+/- 4.0 % max.

Ripple & Noise, 20 MHz BW..... 50 mV p-p max.

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

Short Circuit Protection.....Momentary

Line Regulation ¹ Single / Dual Output.....+/- 0.3 % max.

Load Regulation ² Single / Dual Output.....+/- 0.5 % max.

Efficiency.....50%

Isolation Capacitance.....30pF

Isolation Resistance.....100Mohm

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

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

Case Temperature.....95° C max.

Cooling.....Free air convection

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

Isolation Voltage.....500VDC min.

Suffix "H" Models.....3K VDC min.

Dimensions.....1.25" x 0.8" x 0.4" (31.8 x 20.3 x 10.2 mm)

Case Material.....Non-Conductive Black Plastic

Suffix "M" Models(Material).....Black Coated Copper with Non-conducted base

General Specifications :

Outline Information and Pin-out

PIN CONNECTION					
500VDC			3K VDC		
PIN	Single Output	Dual Output	PIN	Single Output	Dual Output
1 24	+V input	+V input	1 2,3	+V input	+V input
2 23	NC	-V output	22, 23, 24	-V input	-V input
3 22	NC	Common	10 11	NP	Go output
10	-V output	Common	12	-V output	-TP
11	+V output	+V output	13	+V output	-V output
12	-V input	-V input	14	NP	NP
13	-V input	-V input	15	NP	+V output
14	+V output	+V output	16	NP	+TP
15	-V output	Common	17	+TP	NP

* NP---No Pin

* TP---Test Point

* NC---No connection with pin

* Go---Ground

Note:

All dimensions are in inches [mm]

All pins sizes are dia. 0.02" [0.508mm] and 0.14"[0.35mm] length

