

# 1.5 WATT 2:1 INPUT RANGE SINGLE and DUAL OUTPUTS DC - DC CONVERTERS

## TP200 2B SERIES



### Features:

- 50 - 75% Efficiency
- 2:1 Input Range
- Pi Input Filter
- Regulated Outputs
- Low Ripple and Noise
- Short Circuit Protection

### Specifications:

#### Input

Input Voltage Range : 2:1  
Input Filter : Pi Network

#### Output

Voltage/Current Ratings : See Order Information Table  
Line Regulation :  $\pm 1\%$  max.  
Load Regulation :  $\pm 1\%$  max.  
Dielectric Withstand : 500 VDC min.  
Ripple and Noise : 0.5-1% p-p max.  
Isolation Resistance :  $10^9$  ohms  
Isolation Capacitance : 30pF  
Efficiency : 50-75%  
Switching Frequency : 25KHz min.  
Output Protection : Short Circuit Protection, 10 seconds max.

#### Environmental

Operating Temperature : -25C to +71C  
Storage Temperature : -55C to +105C  
Temperature Coefficient :  $\pm 0.02\%$ /degree C

#### Mechanical

Case Material : Non-Conductive Black Plastic

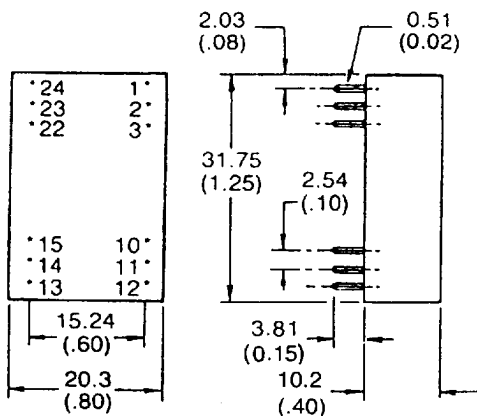
## ORDER INFORMATION TABLE

INPUT VOLTAGE (Vdc)	OUTPUT VOLTAGE (Vdc)	OUTPUT CURRENT (mA)	INPUT CURRENT (mA)		MODEL NO.
			NO LOAD	FULL LOAD	
4.5-6.0	5	300	45	478	2B300-05S05
4.5-6.0	12	125	45	440	2B125-05S12
4.5-6.0	15	100	45	440	2B100-05S15
9-18	5	300	25	192	2B300-12S05
9-18	12	125	25	190	2B125-12S12
9-18	15	100	25	178	2B100-12S15
18-36	5	300	15	88	2B300-24S05
18-36	12	125	15	86	2B125-24S12
18-36	15	100	15	87	2B100-24S15
36-72	5	300	15	50	2B300-48S05
36-72	12	125	15	46	2B125-48S12
36-72	15	100	15	47	2B100-48S15
9-18	±5	150	25	195	2B150-12D05
9-18	±12	60	25	190	2B060-12D12
9-18	±15	50	25	190	2B050-12D15
18-36	±5	150	15	95	2B150-24D05
18-36	±12	60	15	90	2B060-24D12
18-36	±15	50	15	90	2B050-24D15
36-72	±5	150	15	52	2B150-48D05
36-72	±12	60	15	46	2B060-48D12
36-72	±15	50	15	47	2B050-48D15

NOMINAL INPUT 12Vdc, 24Vdc, 48Vdc FOR INPUT CURRENT.

DIMENSION: BOTTOM VIEW

B CASE.



## PIN CONNECTIONS

PIN	SINGLE	DUAL
1&24	+ INPUT	+ INPUT
2&23	NC	- OUTPUT
3&22	NC	COMMON
10&15	- OUTPUT	COMMON
11&14	+ OUTPUT	+ OUTPUT
12&13	- INPUT	- INPUT