

1. Features :

<ul style="list-style-type: none"> ■ Wide 2 : 1 Input Range 	
<ul style="list-style-type: none"> ■ Low Ripple and Noise 	
<ul style="list-style-type: none"> ■ Input / Output Isolation 1K Vdc 	
<ul style="list-style-type: none"> ■ 100 % Burn-In 	
<ul style="list-style-type: none"> ■ Output π - Filter 	
<ul style="list-style-type: none"> ■ Custom Design Available 	

2. Absolute maximum ratings :

(Exceeding these values may damage the module. These are not continuous operating ratings)

Parameter	Condition	Min.	Typ.	Max.	Unit
Input Absolute Voltage Range	5V Input Model	-0.7	5	10	Vdc
	12V Input Model	-0.7	12	22.5	
	24V Input Model	-0.7	24	45	
	48V Input Model	-0.7	48	85	
Output Short circuit duration	Nominal Input Range	Indefinite & Auto-Restart			
Reverse Polarity Input current Limit	---	---	---	1	A
Operating temperature	Output Full Load	-40	---	+85	°C
Storage temperature		-55	---	+105	

3. Nominal Input / Output Electrical Specifications :

(Specifications typical at Ta = +25°C , nominal input voltage, rated output current unless otherwise noted)

Parameter	Condition	Min.	Typ.	Max.	Unit
Input Voltage Range	12V Input Model	4.5	5	9	Vdc
	12V Input Model	9	12	18	
	24V Input Model	18	24	36	
	48V Input Model	36	48	75	
Line Regulation	Output full Load	---	---	± 0.5	%
Load Regulation	Single Output Model	---	---	± 0.5	
Output Voltage Accuracy	Nominal Input	---	± 1.0	± 2.0	
Switching Frequency	Nominal Input	---	150	---	KHz
Temperature Coefficient		---	± 0.01	± 0.02	% / °C
Isolation Voltage	60 Seconds / 0.5mA	1000	---	---	Vdc
Isolation Resistance	500 Vdc	1000	---	---	MΩ
Low-Enable Signal Logic level Pin # 3 (Ve)	Output Voltage => Hi	No Connection (Floating)			
		0	---	0.4	Vdc
	Output Voltage => Low	2.5	---	5.0	

4. Single Output Selection Guide :

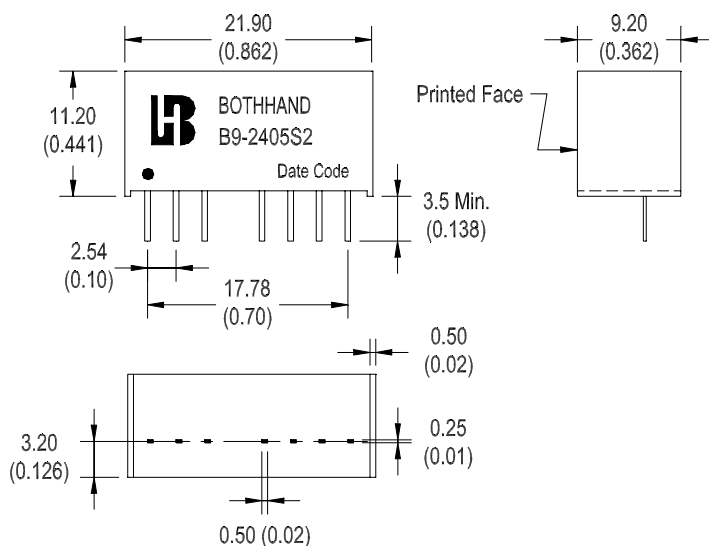
(Specifications typical at Ta = +25 °C , Nominal input voltage, Rated output current unless otherwise noted)

Bothhand Model No.	Input Voltage (Vdc)	Output Voltage (Vdc)	Output Current (mA) Max	Input Current @ No Load (mA) Typ.	Input Current @ Max. Load (mA) Typ.	Output Ripple (mV) Max.	Load Regulation (%) Max.	Efficiency (%) Typ.
B9-0505S2	4.5 ~ 9	5.0	400	4	667	50	± 0.5	60
B9-0509S2		9.0	222	4	615	80	± 0.5	65
B9-1205S2	9 ~ 18	5.0	400	4	219	50	± 0.5	76
B9-1212S2		12.0	167	4	209	100	± 0.5	80
B9-1215S2		15.0	134	4	209	120	± 0.5	80
B9-2405S2	18 ~ 36	5.0	400	4	107	50	± 0.5	78
B9-2409S2		9.0	222	4	104	80	± 0.5	80
B9-2412S2		12.0	167	4	104	100	± 0.5	80
B9-2415S2		15.0	134	4	105	120	± 0.5	80
B9-4805S2	36 ~ 75	5.0	400	4	56	50	± 0.5	75
B9-4809S2		9.0	222	4	54	80	± 0.5	77
B9-4812S2		12.0	167	4	54	100	± 0.5	78
B9-4815S2		15.0	134	4	54	120	± 0.5	78
BB-xxxxSx								

Notes :

1. B9-xxxxSx is for Customer Design.
2. Load regulation is for output current change from 0 % to 100 % Max. Load.

Mechanical Dimension :



Pin	1K Vdc - Single
1	-Vin
2	+Vin
3	Ve
4	---
5	NC
6	Vo (+)
7	Vo (-)
8	Cext

Note : " --- " means Omitted