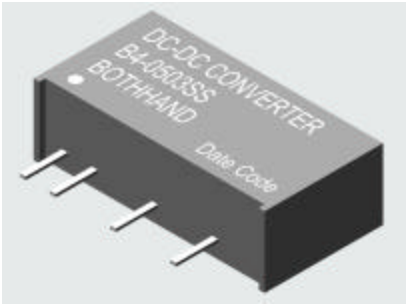
1. Features :

- 7 Pin SIL Package
- Low Ripple and Noise
- Input / Output Isolation 1K Vdc or 3K Vdc
- 100 % Burn-In
- Input Filter with Internal Capacitor
- 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	7.5	Vdc
	12V Input Model	-0.7	12	15	
	24V Input Model	-0.7	24	30	
Max. Output power		---	---	1.5	W
Output Short circuit duration		---	---	1.0	Second
Operating temperature	Output Full Load	-40	---	+85	Deg
Storage temperature		-55	---	+125	

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	5V Input Model	4.5	5	5.5	Vdc
	12V Input Model	10.8	12	13.2	
	24V Input Model	21.6	24	26.4	
Output Voltage Accuracy	Nominal Input	---	---	± 1.0	%
Switching Frequency		---	125	---	KHz
Temperature Coefficient		---	± 0.01	± 0.02	% / °
Isolation Voltage	Standard Series	1000	---	---	Vdc
	High Isolation Series	3000	---	---	
Isolation Resistance	500 Vdc	1000	---	---	M?
Isolation Capacitance	1 KHz / 250 mV rms	---	60	---	pF
Line Regulation		---	---	± 0.5	%

4. Model Selection Guide :

4.1. 1K Vdc Isolation - Single output

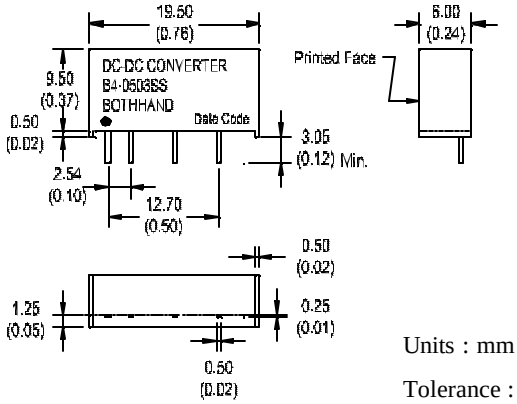
(Specifications typical at Ta = +25 °C, Nominal input voltage, Rated output current unless otherwise noted)

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.
B4-0503SS	5	3.0	200	18	193	50	± 0.5	62
B4-053R3SS		3.3	200	18	212	50	± 0.5	62
B4-0505SS		5.0	200	26	312	50	± 0.5	64
B4-0509SS		9.0	150	26	421	50	± 0.5	64
B4-0512SS		12.0	100	26	375	50	± 0.5	64
B4-1203SS	12	3.0	200	15	81	50	± 0.5	62
B4-123R3SS		3.3	200	15	88	50	± 0.5	62
B4-1205SS		5.0	200	23	130	50	± 0.5	64
B4-1209SS		9.0	150	23	176	50	± 0.5	64
B4-1212SS		12.0	100	23	156	50	± 0.5	64
B4-2403SS	24	3.0	200	12	40	50	± 0.5	62
B4-243R3SS		3.3	200	12	43	50	± 0.5	63
B4-2405SS		5.0	200	10	64	50	± 0.5	65
B4-2409SS		9.0	150	9	88	50	± 0.5	64
B4-2412SS		12.0	100	9	78	50	± 0.5	64
B4-xxxxSS								

Notes :

1. B4-xxxxSS is for Customer Design.
2. Load regulation is for output current change from 0 % to 100 % Max. Load.

Mechanical Dimension:



Units : mm (inch)

Tolerance : .xx ± 0.25

(± 0.01)

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

Note:"--- " means Omitted

4.2. 3K Vdc Isolation - Single output

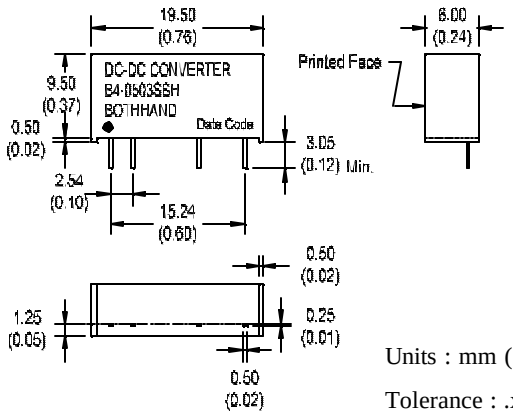
(Specifications typical at Ta = +25 °C, Nominal input voltage, Rated output current unless otherwise noted)

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.
B4-0503SSH	5	3.0	200	18	193	50	± 0.5	62
B4-053R3SSH		3.3	200	18	212	50	± 0.5	62
B4-0505SSH		5.0	200	26	312	50	± 0.5	64
B4-0509SSH		9.0	150	26	421	50	± 0.5	64
B4-0512SSH		12.0	100	26	375	50	± 0.5	64
B4-1203SSH	12	3.0	200	15	81	50	± 0.5	62
B4-123R3SSH		3.3	200	15	88	50	± 0.5	62
B4-1205SSH		5.0	200	23	130	50	± 0.5	64
B4-1209SSH		9.0	150	23	176	50	± 0.5	64
B4-1212SSH		12.0	100	23	156	50	± 0.5	64
B4-2403SSH	24	3.0	200	12	40	50	± 0.5	62
B4-243R3SSH		3.3	200	12	43	50	± 0.5	63
B4-2405SSH		5.0	200	10	64	50	± 0.5	65
B4-2409SSH		9.0	150	9	88	50	± 0.5	64
B4-2412SSH		12.0	100	9	78	50	± 0.5	64
B4-xxxxSSH								

Notes :

1. B4-xxxxSSH is for Customer Design.
2. Load regulation is for output current change from 0 % to 100 % Max. Load.

Mechanical Dimension:



Units : mm (inch)

Tolerance : .xx ± 0.25

(± 0.01)

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

Note:" --- " means Omitted