1. Features :

- Wide 2：1 Input Range
- Low Ripple and Noise
- Input / Output Isolation 1.5K Vdc or 3K Vdc
- 100 % Burn-In
- Input π - Filter
- 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	12V Input Model	-0.7	12	22.5	Vdc
	24V Input Model	-0.7	24	45	
	48V Input Model	-0.7	48	90	
Output Short circuit duration	Nominal Input Range	Indefinite & Auto-Restart			
Reverse Polarity Input current Limit	---	---	---	1	A
Operating temperature	Output Full Load	-25	---	+71	℃
Storage temperature		-55	---	+105	

3. Nominal Input / Output Electrical Specifications :

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

Parameter	Condition	Min.	Typ.	Max.	Unit
Input Voltage Range	12V Input Model	9	12	18	Vdc
	24V Input Model	18	24	36	
	48V Input Model	36	48	72	
Line Regulation	Output full Load	---	---	± 0.5	%
Load Regulation	Single Output Model	---	---	± 0.5	
	Dual Output Model			± 2	
Output Voltage Accuracy	Nominal Input	---	± 1.0	± 2.0	
Output Voltage Balance	Dual Output at same Load	---	---	± 1.0	
Switching Frequency	Nominal Input	---	250	---	KHz
Temperature Coefficient		---	± 0.01	± 0.02	% / ℃
Isolation Voltage	Standard Series	1500	---	---	Vdc
	High Isolation Series	3000	---	---	
Isolation Resistance	500 Vdc	1000	---	---	MΩ
Isolation Capacitance	1 KHz / 250 mV rms	---	350	---	pF

4. Single Output Selection Guide：

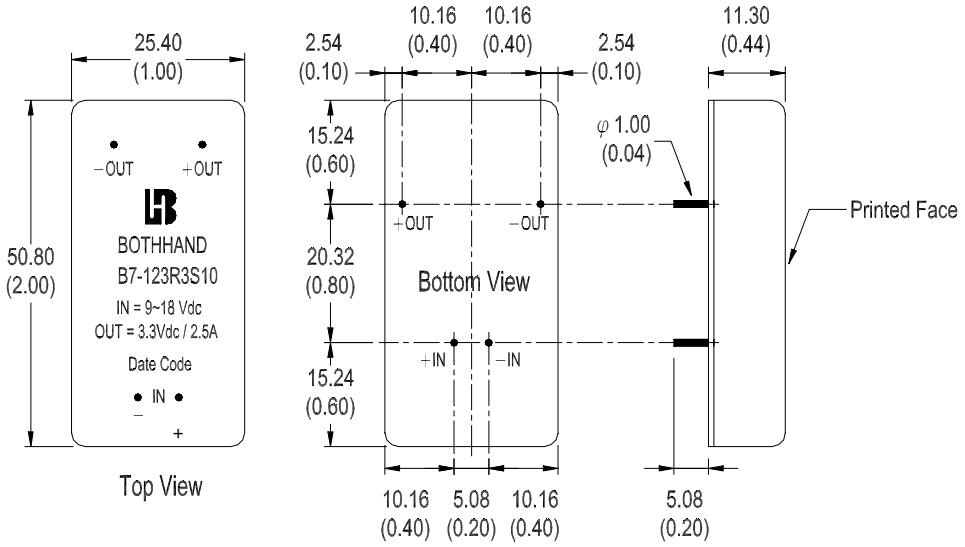
(Specifications typical at Ta = +25 ℃, Nominal input voltage, Rated output current unless otherwise noted)

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.
10 W Single output Series：								
B7-123R3S10	9 ~ 18	3.3	2500	20	870	50	± 0.5	79
B7-1205S10		5.0	2000	25	1042	50	± 0.5	80
B7-2405S10	18 ~ 36	5.0	2000	13	514	50	± 0.5	81
B7-2412S10		12.0	800	15	482	100	± 0.5	83
B7-4805S10	36 ~ 72	5.0	2000	7	260	50	± 0.5	80
15 W Single output Series：								
B7-1205S15	9 ~ 18	5.0	3000	22	1582	50	± 0.5	79
B7-1212S15		12.0	1250	30	1543	100	± 0.5	81
B7-2405S15	18 ~ 36	5.0	3000	17	781	50	± 0.5	80
B7-2412S15		12.0	1250	20	762	100	± 0.5	82
B7-4805S15	36 ~ 72	5.0	3000	12	396	50	± 0.5	79
B7-4812S15		12.0	1250	15	381	100	± 0.5	82
B7-xxxxSxx								

Notes：

1. Standard output Voltage is 3.3V, 5V, 9V, 12V, 15V, B7-xxxxSxx is for Customer Design.
2. Suffix “H” for 3K Vdc Isolation. (B7-xxxxSxxH)

Mechanical：(Single O/P)



Units : mm (inch)

Tolerance : .xx ± 0.25

(± 0.01)

5. Dual Output Selection Guide：

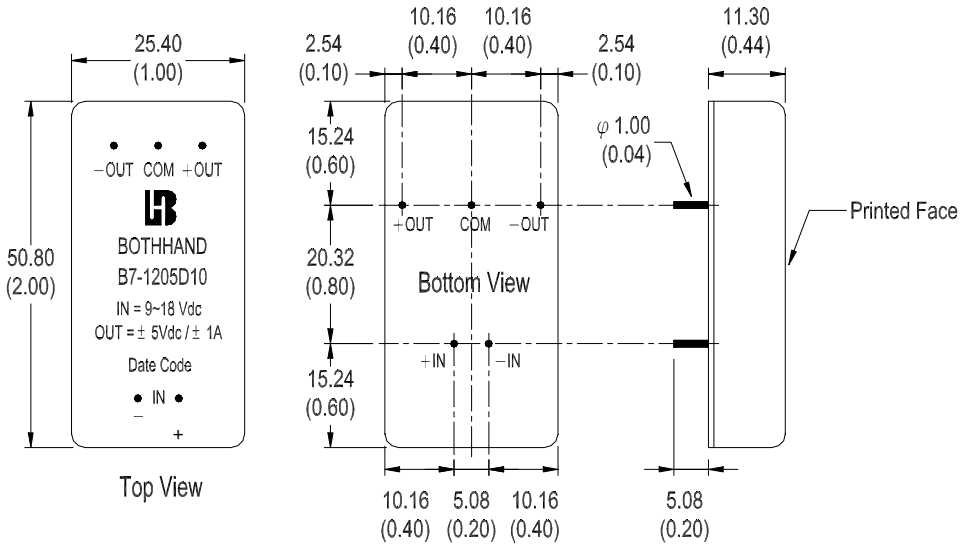
(Specifications typical at Ta = +25 ℃, Nominal input voltage, Rated output current unless otherwise noted)

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.
10 W Dual output Series：								
B7-1205D10	9 ~18	± 5.0	± 1000	27	1068	50	± 2	78
B7-2405D10	18 ~ 36	± 5.0	± 1000	18	527	50	± 2	79
B7-2415D10		± 15.0	± 325	20	495	120	± 2	82
B7-4805D10	36 ~ 72	± 5.0	± 1000	12	260	50	± 2	80
B7-4815D10		± 15.0	± 325	15	254	120	± 2	80
15 W Dual output Series：								
B7-1205D15	9 ~ 18	± 5.0	± 1500	27	1603	50	± 2	78
B7-1212D15		± 12.0	± 625	32	1563	100	± 2	80
B7-2405D15	18 ~ 36	± 5.0	± 1500	20	791	50	± 2	79
B7-2412D15		± 12.0	± 625	22	772	100	± 2	81
B7-4805D15	36 ~ 72	± 5.0	± 1500	12	396	50	± 2	79
B7-4815D15		± 15.0	± 500	15	381	120	± 2	82
B7-xxxxDxx								

Notes：

1. Standard output Voltage is 3.3V, 5V, 9V, 12V, 15V, B7-xxxxDxx is for Customer Design.
2. Suffix “H” for 3K Vdc Isolation. (B7-xxxxDxxH)

Mechanical：(Dual O/P)



Units : mm (inch)

Tolerance : .xx ± 0.25

(± 0.01)