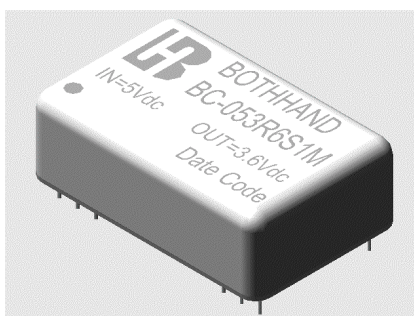


### 1. Features :

<ul style="list-style-type: none"> <li>■ 24 Pin DIL Package</li> </ul>	
<ul style="list-style-type: none"> <li>■ Regulated Output &amp; Low Ripple and Noise</li> </ul>	
<ul style="list-style-type: none"> <li>■ Input / Output Isolation 1K Vdc 3K Vdc</li> </ul>	
<ul style="list-style-type: none"> <li>■ 100 % Burn-In</li> </ul>	
<ul style="list-style-type: none"> <li>■ Input <math>\pi</math> - Filter</li> </ul>	
<ul style="list-style-type: none"> <li>■ Custom Design Available</li> </ul>	

### 2. Absolute maximum ratings :

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

Parameter	Condition	Min.	Typ.	Max.	Unit
Input <b>Absolute</b> 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	
Output Short circuit duration	Nominal Input Range	Indefinite & Auto-Restart			
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	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	
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	---	125	---	KHz
Temperature Coefficient		---	± 0.01	± 0.02	% / °C
Isolation Voltage	Standard Series	1500	---	---	Vdc
	High Isolation Series	3000	---	---	
Isolation Resistance	500 Vdc	1000	---	---	MΩ
Isolation Capacitance	1 KHz / 250 mV rms	---	60	---	pF

### 4. Single Output Selection Guide :

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

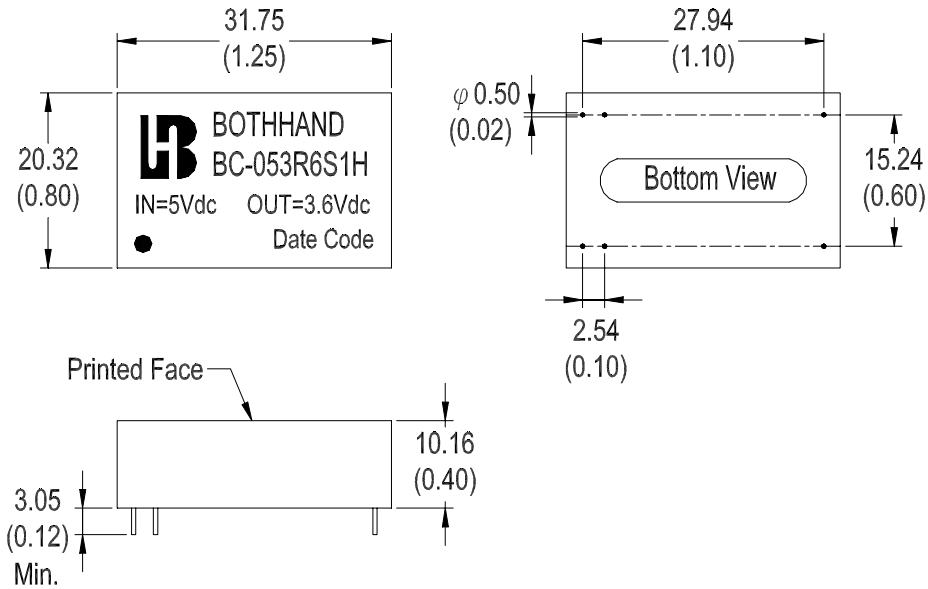
Bothhand Model No.	Input Voltage (Vdc)	Output Voltage (Vdc)	Output Current (mA) Max	Input Current @ No Load (mA) Typ.	Input Current @ Max. Load (mA) Typ.	Output Ripple (mV) Max.	Load Regulation (%) Max.	Efficiency (%) Typ.
<b>1.5 W Single output Series :</b>								
BC-053R6S1	5	3.6	400	28	443	60	± 0.5	65
BC-0505S1		5.0	300	25	454	60	± 0.5	66
BC-1205S1	12	5.0	300	16	184	60	± 0.5	68
BC-1212S1		12.0	125	16	181	100	± 0.5	69
BC-2405S1	24	5.0	300	5	96	60	± 0.5	65
BC-247R2S1		7.2	200	5	91	70	± 0.5	66
BC-2415S1		15.0	100	4	91	120	± 0.5	69
<b>2.0 W Single output Series :</b>								
BC-0505S2	5	5.0	400	45	615	70	± 0.5	65
BC-0509S2		9.0	200	43	545	90	± 0.5	66
BC-1205S2	12	5.0	400	18	252	70	± 0.5	66
BC-1209S2		9.0	200	18	220	90	± 0.5	68
BC-1212S2		12.0	167	18	245	100	± 0.5	68
BC-2405S2	24	5.0	400	5	128	70	± 0.5	65
BC-2412S2		12.0	167	5	121	100	± 0.5	69
<b>3.0 W Single output Series :</b>								
BC-0505S3	5	5.0	600	50	938	70	± 0.5	64
BC-0512S3		12.0	250	45	910	100	± 0.5	66
BC-1205S3	12	5.0	600	20	378	70	± 0.5	66
BC-1209S3		9.0	333	20	362	90	± 0.5	69
BC-1212S3		12.0	250	20	362	100	± 0.5	69
BC-2405S3	24	5.0	600	6	192	70	± 0.5	65
BC-2412S3		12.0	250	6	181	100	± 0.5	66
BC-xxxxSx								

Notes :

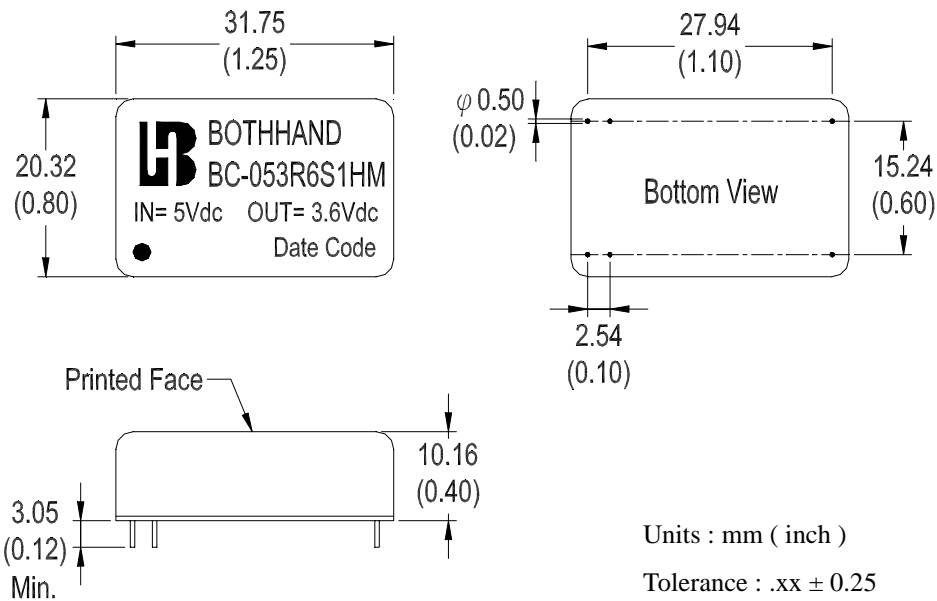
- Standard output voltage is 3.3V, 5V, 9V, 12V, 15V, BC-xxxxSx is for Customer Design.
- Load regulation is for output current change from 0 % to 100 % Max. Load.
- Suffix "H" for 3K Vdc Isolation..... ( BC-xxxxSxH )
- Suffix "M" for Metal case ..... ( BC-xxxxSxHM )

### Mechanical Dimension : ( Single O/P )

#### (1). Plastic Case :



#### (2). Nickel Coated Metal Case :



Pin	Single Output		Pin
1	N.C.	N.C.	24
2	+Vin	-Vin	23
3			22
4			21
5			20
6			19
7	---	---	18
8			17
9			16
10			15
11			14
12	Vo (-)	Vo (+)	13

Note : " --- " means Omitted

Units : mm ( inch )

Tolerance : .xx ± 0.25

( ± 0.01 )

### 5. Dual Output Selection Guide :

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

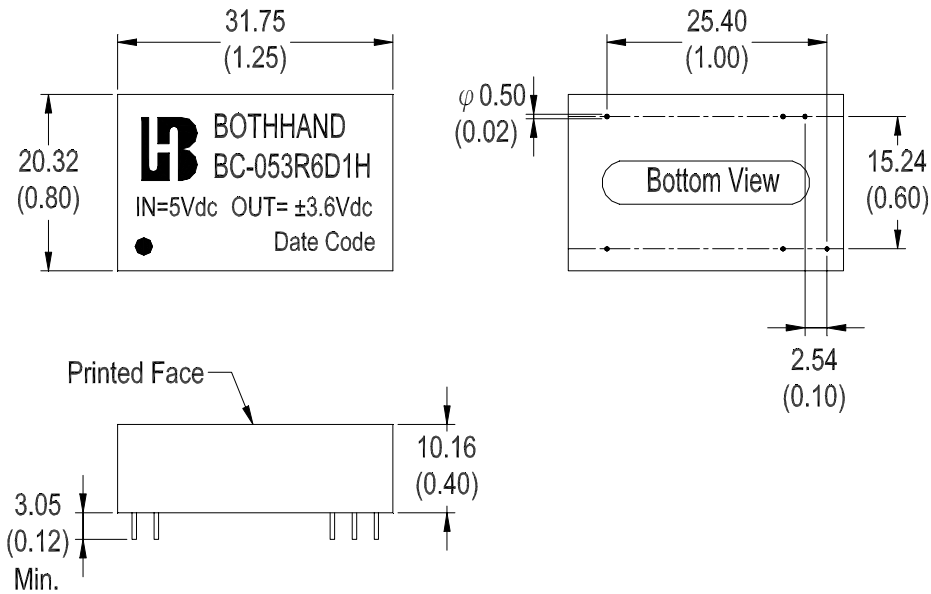
Bothhand Model No.	Input Voltage (Vdc)	Output Voltage (Vdc)	Output Current (mA) Max	Input Current @ No Load (mA) Typ.	Input Current @ Max. Load (mA) Typ.	Output Ripple (mV) Max.	Load Regulation (%) Max.	Efficiency (%) Typ.
<b>1.5 W Dual output Series :</b>								
BC-053R6D1	5	± 3.6	± 200	28	443	70	± 2	65
BC-0505D1		± 5.0	± 150	25	454	70	± 2	66
BC-1205D1	12	± 5.0	± 150	16	184	70	± 2	68
BC-1212D1		± 12.0	± 63	16	181	100	± 2	69
BC-2405D1	24	± 5.0	± 150	5	96	70	± 2	65
BC-247R2D1		± 7.2	± 100	5	91	75	± 2	66
BC-2415D1		± 15.0	± 50	4	91	120	± 2	69
<b>2.0 W Dual output Series :</b>								
BC-0505D2	5	± 5.0	± 200	45	615	70	± 2	65
BC-0512D2		± 12.0	± 83	43	606	100	± 2	66
BC-1205D2	12	± 5.0	± 200	18	252	70	± 2	66
BC-2405D2	24	± 5.0	± 200	5	128	70	± 2	65
BC-2412D2		± 12.0	± 83	5	121	100	± 2	69
<b>3.0 W Dual output Series :</b>								
BC-0505D3	5	± 5.0	± 300	50	938	70	± 2	64
BC-0512D3		± 12.0	± 125	45	910	100	± 2	66
BC-1205D3	12	± 5.0	± 300	20	378	70	± 2	66
BC-1212D3		± 12.0	± 125	20	362	100	± 2	69
BC-2405D3	24	± 5.0	± 300	6	192	70	± 2	65
BC-2412D3		± 12.0	± 125	6	181	100	± 2	69
BC-2415D3		± 15.0	± 100	6	181	120	± 2	69
BC-xxxxDx								

Notes :

- Standard output voltage is ±5V, ±12V, ±15V, BC-xxxxDx is for Customer Design.
- Load regulation is for Each output current change from 20 % to 100 % Max. Load.
- Suffix "H" for 3K Vdc Isolation..... ( BC-xxxxDxH )
- Suffix "M" for Metal case ..... ( BC-xxxxDxHM )

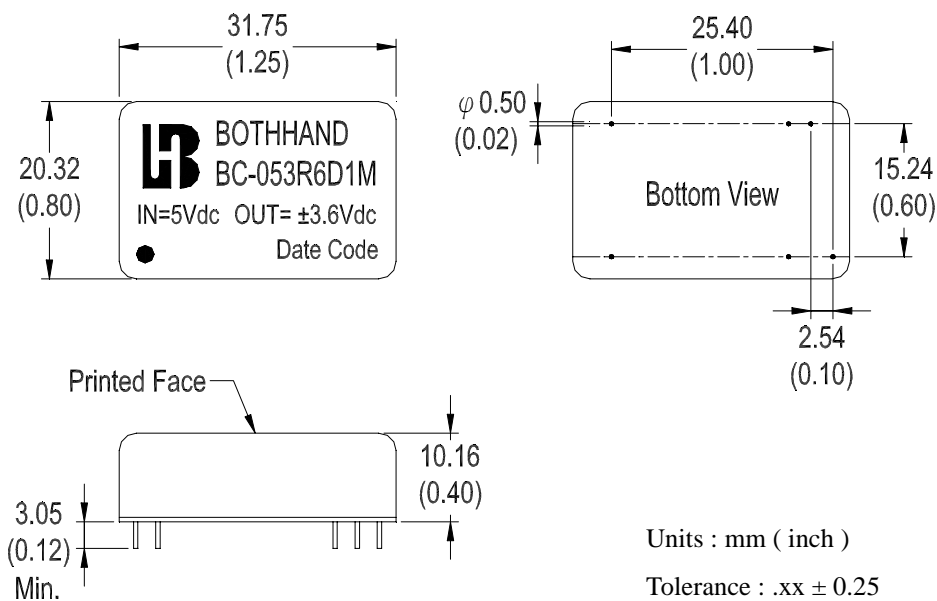
### Mechanical Dimension ( Dual O/P )

#### (1). Plastic Case :



Pin	Dual Output		Pin
1	---	---	24
2	+Vin	-Vin	23
3			22
4			21
5			20
6			19
7			18
8			17
9			16
10	Common	Vo (+)	15
11		---	14
12	---	Vo (-)	13

#### (2). Nickel Coated Metal Case :



Note : " --- " means Omitted

Units : mm ( inch )

Tolerance : .xx ± 0.25

( ± 0.01 )