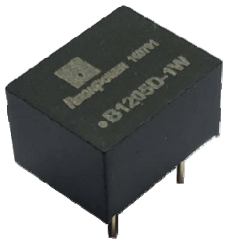
DC ➔ DC POWER MODULE

B SERIES

B Series BxxxxD-xW 1KVDC Isolation 0.1W~2W Unregulated single output DIP8 PIN



Input Volt.
5, 9, 12, 15, 24 VDC

Output Volt.
3.3, 5, 9, 12, 15, 24 VDC

Other specifications required, please inquire us for details.

Technical Parameters
All the parameters below are tested at TA=25° C, nominal input voltage, rated output current.

Input Parameters

Volt. Range	+/- 10 %
Filter	Ceramic-capacitor

Isolation Parameters

Rated Isolation Volt.	1000 VDC
Leak current	<1 m A
Resistance	10^9 Ohm
Capacitor	60 pF TYP.

Output Parameters

Volt. Precision	+/- 5 %, max.
(20 MHz BW) Ripple&Noise	150mV p-p, max.
Continuous short-circuit time	Immediately (<1s)
Linear volt. Calibration	+/- 1,2 % / 1,0 % of Vin
Load volt. Calibration	+/- 8 %, load = 20 ~ 100 %
Temperature index	+/- 0,02 % / °C

General Parameters

Efficiency	55% to 85 %
Switching Frequency	60~125 KHz, type.

Environmental Parameters

Operating Temp. (environmental)	- 40° C to + 85° C
Storage Temp.	- 55 °C to + 125 °C
Reducing rated value	See temperature derating graph below
Humidity	≤ 90 %, Non-compression
Colling method	Natural Free-air

Dimension

DIP Package size	12.7 x 10.0 x 7.7 mm 0.5 x 0.39 x 0.3 inch

Weight
2.5 g~3.5 g

External Package Material
Non-conductive flame-retardant black plastics

Typical Product List:
(The parameters below are collected at 8 hours full-load aging test.)

Model No.	Input Volt. Vin(VDC)	Input Current Empty load (mA)	Input Current Full load (mA)	Output Volt. Vout(VDC)	Output Current (max.mA)	Efficiency Full load (%TYPE)
B0503D-W1	5	5	34	3.3	30	59
B0505D-W1	5	4	33	5	20	60
B0512D-W1	5	8	32	12	8	60
B1205D-W1	12	5	14	5	20	61
B1212D-W1	12	5	14	12	8	60
B1215D-W1	12	5	13	15	7	62
B2405D-W1	24	5	7	5	20	60
B2412D-W1	24	5	7	12	8	77

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Model No.	Input Volt. Vin(VDC)	Input Current Empty load (mA)	Input Current Full load (mA)	Output Volt. Vout(VDC)	Output Current (max.mA)	Efficiency Full load (%TYPE)
B0505D-W25	5	7	81	5	50	62
B1205D-W25	12	6	34	5	50	62
B1212D-W25	12	5	35	12	21	61
B1215D-W25	12	7	32	15	17	62
B2405D-W25	24	5	17	5	50	62
B2412D-W25	24	4	16	12	21	63
B2415D-W25	24	4	15	15	17	65
B0503D-W5	5	16	167	3.3	150	60
B0505D-W5	5	12	159	5	100	63
B0512D-W5	5	18	154	12	42	65
B1205D-W5	12	11	67	5	100	62
B1212D-W5	12	10	66	12	42	63
B1215D-W5	12	10	63	15	34	66
B2405D-W5	24	6	33	5	100	63
B2412D-W5	24	7	32	12	42	65
B2415D-W5	24	8	27	15	34	66
B0503D-W75	5	22	246	3.3	227	61
B0505D-W75	5	22	238	5	150	63
B0512D-W75	5	14	242	12	63	62
B0515D-W75	5	14	238	15	50	63
B1205D-W75	12	15	100	5	150	62
B1212D-W75	12	12	97	12	63	64
B1215D-W75	12	10	96	15	50	65
B1512D-W75	15	7	79	12	63	63
B1515D-W75	15	7	77	15	50	64
B0505D-1W	5	27	263	5	200	76
B0512D-1W	5	26	256	12	84	78
B0524D-1W	5	26	256	24	42	78
B1212D-1W	12	12	107	12	84	78
B1215D-1W	12	11	104	15	67	80
B2405D-1W	24	8	54	5	200	77
B2409D-1W	24	8	54	9	111	77
B2412D-1W	24	8	54	12	84	77
B2415D-1W	24	7	55	15	67	76
B0503D-2W	5	60	571	3.3	606	70
B0505D-2W	5	42	513	5	400	78
B0512D-2W	5	26	500	12	167	80
B1205D-2W	12	22	222	5	400	75
B1212D-2W	12	20	208	12	167	80
B1215D-2W	12	18	214	15	133	78
B2405D-2W	24	8	111	5	400	75
B2412D-2W	24	8	101	12	167	82
B2415D-2W	24	8	98	15	133	85

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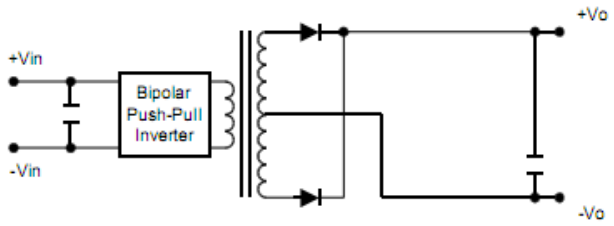
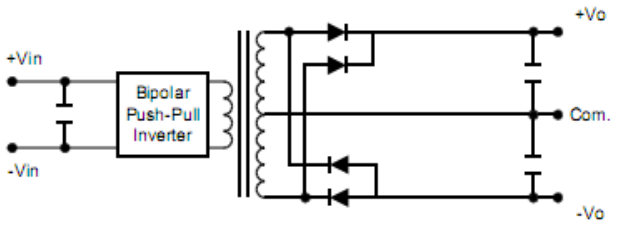
Functional Block Diagram:

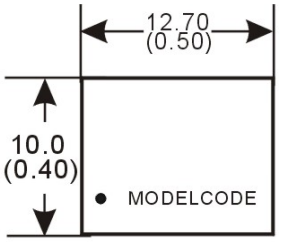
Single Output

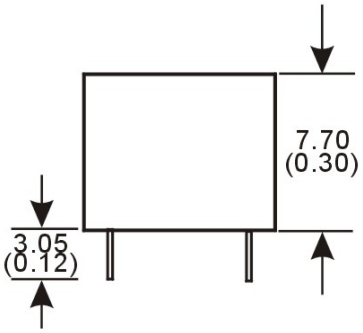


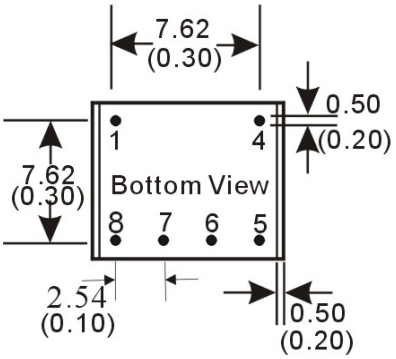
Dual Output

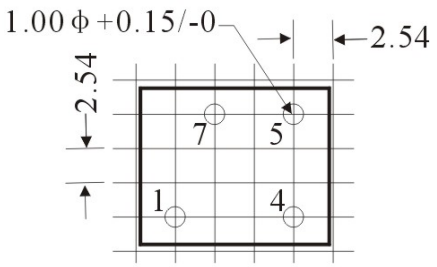


External Dimension & PCB Installation:



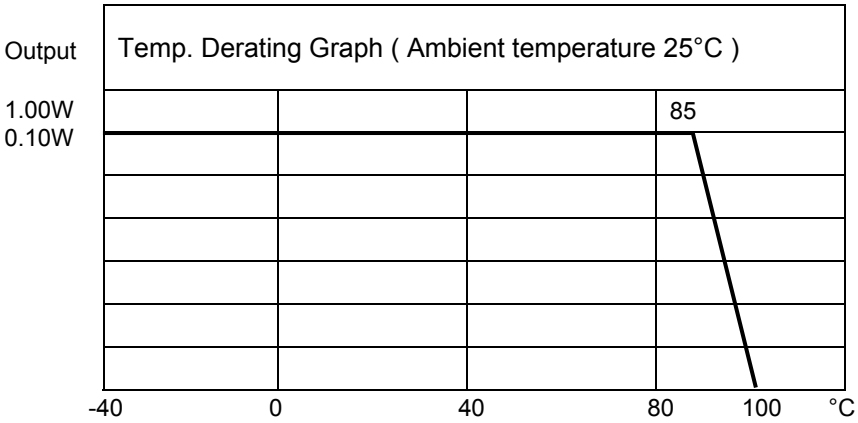






DIP 8 封装

Temperature Derating Graph and PIN Definition



Pin	Function		
4	+	Vin	Input +
1	-	Vin	Input -
2,3			
5	+	Vout	Output +
7	-	Vout	Output -
6,8			

* Note: the product design and specification are subject to change without notice.

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