

1W, Fixed input voltage, isolated & unregulated single output



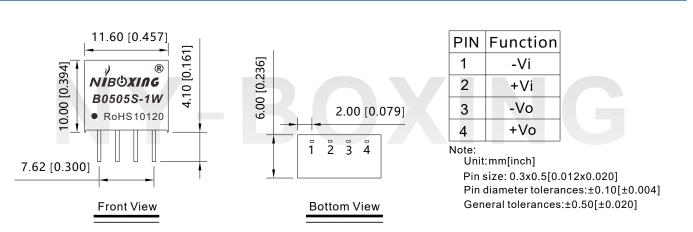
FEATURES

- ★ Compact size, high power density
- ★ Operating temperature range: -40°C to +85°C
- ★ No-load input current as low as 5mA
- ★ I/O isolation test voltage 1.5K VDC
- ★ Low ripple & noise
- ★ RoHS Compliant
- ★ Industrial grade, high reliability

BxxxxS-1W series are specially designed for applications where an isolated voltage is required in a distributed power supply system. They are suitable for: pure digital circuits, low frequency analog circuits, relay-driven circuits and data switching circuits.

Dimensions

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Selection	Guide				
Part No.	Input Voltage	Nominal Output Voltage	Efficiency (%)(Typ.)	Output Current	Max. Capacitive
Part NO.	(VDC)	and Current	@ Full Load	(mA)(Min.)	Load(µF)
B0303S-1W		3.3V/300mA	81%	30mA	10uF
B0305S-1W		5V/200mA	81%	20mA	10uF
B0312S-1W		12V/83mA	82%	9mA	4.7uF
B0315S-1W		15V/67mA	78%	7mA	2.2uF
B0324S-1W		24V/42mA	82%	4mA	1uF
B0503S-1W		3.3V/300mA	81%	30mA	10uF
B0505S-1W		5V/200mA	81%	20mA	10uF
B0512S-1W		12V/83mA	82%	9mA	4.7uF
B0515S-1W		15V/67mA	78%	7mA	2.2uF
B0524S-1W	_	24V/42mA	82%	4mA	1uF

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R DC/DC BxxxxS-1W Series

B1203S-1W	– 10.8~13.2V – – (Typ: 12VDC) –	3.3V/300mA	81%	30mA	10uF
B1205S-1W		5V/200mA	83%	20mA	10uF
B1212S-1W		12V/83mA	79%	9mA	4.7uF
B1215S-1W		15V/67mA	80%	7mA	2.2uF
B1224S-1W		24V/42mA	81%	4mA	1uF
B1503S-1W	- 13.5~16.5V -	3.3V/300mA	81%	30mA	10uF
B1505S-1W		5V/200mA	79%	20mA	10uF
B1512S-1W		12V/83mA	83%	9mA	4.7uF
B1515S-1W	- (Typ: 15VDC) —	15V/67mA	82%	7mA	2.2uF
B1524S-1W		24V/42mA	79%	4mA	1uF
B2403S-1W		3.3V/300mA	81%	30mA	10uF
B2405S-1W		5V/200mA	80%	20mA	10uF
B2412S-1W	- 21.6~26.4V - - (Typ: 24VDC) - 	12V/83mA	81%	9mA	4.7uF
B2415S-1W		15V/67mA	82%	7mA	2.2uF
B2424S-1W		24V/42mA	80%	4mA	1uF

Output Specifications

ltem	Operating Conditions	Min	Тур	Мах
Output Power		0.1W		1W
Output Voltage Accuracy	100% load	-7.5%		+2.5%
Line Regulation	Input voltage change: ±1%		±1.5%	
Load Regulation	10%~100% Load		15%	20%
Ripple & Noise*	20MHz bandwidth (peak-to-peak value)		75mV	100mV
Temperature Drift Coefficient	100% load			±0.03%/°C

Note: *Ripple and noise tested with "parallel cable" method, please see DC-DC Converter Application Notes for specific operation methods.

General Specifications

Item	Operating Conditions	Min	Тур	Мах	
Insulation Voltage	Input-Output, Test for 1min		1500VDC		
Operating Temperature		-40°C		+85°C	
Storage Temperature		-40°C		+125°C	
Storage Humidity				95%RH	
Working Frequency			100KHz		
MTBF	MIL-HDBK-217F, 25°C		3500,000h		
Casing Material	Black flame-retardant and heat-resistant plastic (UL94-V0)				

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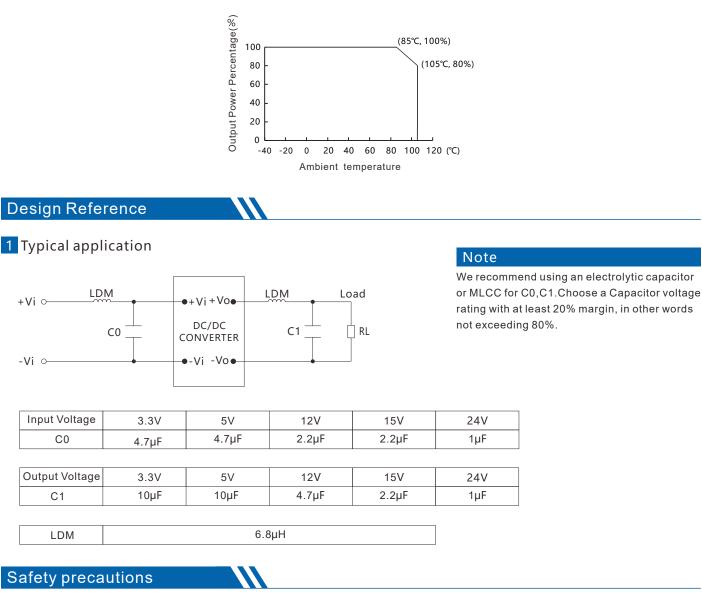
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NIBOXING DC/DC BxxxxS-1W Series

Product Characteristic Curve



Temperature Derating Curve

1.If the product is not operated within the required load range, the product performance cannot be guaranteed to comply with all parameters in the datasheet;

2. Unless otherwise specified, parameters in this datasheet were measured under the conditions of Ta=25°C, humidity<75% with nominal input voltage and rated output load;

3. All index testing methods in this datasheet are based on our Company's corporate standards;

4. We can provide product customization service, please contact our technicians directly for specific information;

5. For more product information, please visit our official website www.gzny-boxing.com or email us (sales@gzny-boxing.com).

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