2W, DC/DC module power supply

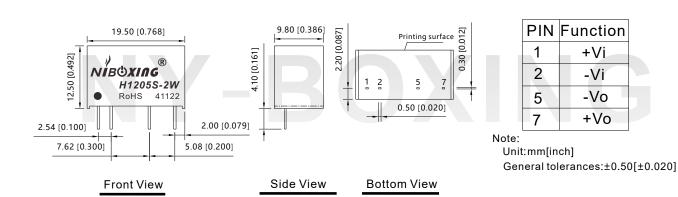


FEATURES

- ★ 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 6000VDC
- ★ Low ripple & noise
- ★ RoHS Compliant
- ★ Industrial grade, high reliability

HxxxxS-2W 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



Selection	Guide				
Part No.	Input Voltage	Nominal Output Voltage	Efficiency (%)(Typ.)	Output Current	Max. Capacitive
	(VDC)	and Current	@ Full Load	(mA)(Min.)	Load(µF)
H0303S-2W	- - 2.97~3.63V - (Typ: 3.3VDC)	3.3V/600mA	81%	30mA	10uF
H0305S-2W		5V/400mA	81%	20mA	10uF
H0312S-2W		12V/166mA	82%	9mA	4.7uF
H0315S-2W		15V/133mA	78%	7mA	2.2uF
H0324S-2W		24V/83mA	82%	4mA	1uF
H0503S-2W	– – 4.5~5.5V – (Typ: 5VDC)	3.3V/600mA	81%	30mA	10uF
H0505S-2W		5V/400mA	81%	20mA	10uF
H0512S-2W		12V/166mA	82%	9mA	4.7uF
H0515S-2W		15V/133mA	78%	7mA	2.2uF
H0524S-2W		24V/83mA	82%	4mA	1uF

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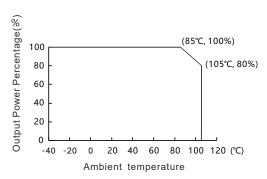
H1203S-2W	- 10.8~13.2V - (Time 12VDC)	3.3V/600mA	81%	30mA	10uF
H1205S-2W		5V/400mA	83%	20mA	10uF
H1212S-2W		12V/166mA	79%	9mA	4.7uF
H1215S-2W	- (Typ: 12VDC) <i>-</i>	15V/133mA	80%	7mA	2.2uF
H1224S-2W	_	24V/83mA	81%	4mA	1uF
H1503S-2W		3.3V/600mA	81%	30mA	10uF
H1505S-2W	- 13.5~16.5V - - (Typ: 15VDC) -	5V/400mA	79%	20mA	10uF
H1512S-2W		12V/166mA	83%	9mA	4.7uF
H1515S-2W		15V/133mA	82%	7mA	2.2uF
H1524S-2W		24V/83mA	79%	4mA	1uF
H2403S-2W		3.3V/600mA	81%	30mA	10uF
H2405S-2W	-	5V/400mA	80%	20mA	10uF
H2412S-2W	- 21.6~26.4V -	12V/166mA	81%	9mA	4.7uF
H2415S-2W	- (Typ: 24VDC) - 	15V/133mA	82%	7mA	2.2uF
H2424S-2W		24V/83mA	80%	4mA	1uF

Output Specifications				
Item	Operating Conditions	Min	Тур	Max
Output Power		0.1W		
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)		150mV	200mV
Temperature Drift Coefficient	100% load			±0.03%/°C
Note: *Ripple and noise tested with "p	arallel cable" method, please see DC-DC	Converter Application	Notes for specific ope	ration methods.

General Specifications					
Item	Operating Conditions	Min	Тур	Max	
Insulation Voltage	Input-Output, Test for 1min	6000VDC			
Operating Temperatu	re	-40°C		+85°C	
Storage Temperature		-55°C		+105℃	
Storage Humidity				95%RH	
Working Frequency			100KHz		
MTBF	MIL-HDBK-217F, 25°C		3500,000h		
Casing Material	Black flame-ret	tardant and heat-resistant plastic (UL94-V0)			

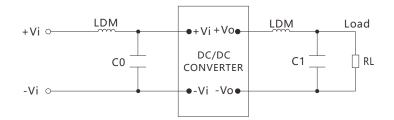
Product Characteristic Curve

Temperature Derating Curve



Design Reference

1 Typical application



Note

a. Ceramic capacitor or electrolytic capacitor is recommended for external capacitor of product input or output. Tantalum capacitors are not recommended, otherwise there is a certain failure risk.

b. The product does not support output and joint power or hot plug

Input Voltage	3.3V	5V	12V	15V	24V
C0	4.7μF	4.7µF	2.2µF	2.2µF	1µF
Output Voltage	3.3V	5V	12V	15V	24V
C1	10μF	10μF	4.7μF	2.2µF	1μF

6.8µH

Safety precautions

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- 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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