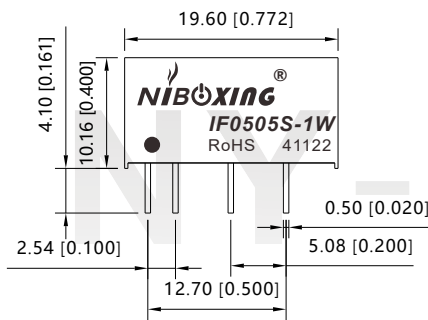
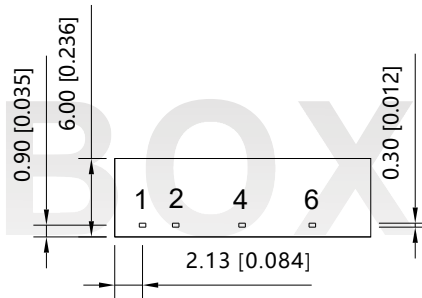


1W, DC/DC module power supply
FEATURES


- ★ 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 3000VDC
- ★ Low ripple & noise
- ★ RoHS Compliant
- ★ Industrial grade, high reliability

IFxxxxS-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

Front View

Bottom View

PIN	Function
1	+Vi
2	-Vi
4	-Vo
6	+Vo

Note:
 Unit:mm[inch]
 Pin section tolerance:±0.15[0.06]
 Other dimensional tolerance:±0.3[±0.012]

Selection Guide

Part No.	Input Voltage (VDC)	Nominal Output Voltage and Current	Efficiency (%) (Typ.) @ Full Load	Output Current (mA) (Min.)	Max. Capacitive Load (µF)
IF0303S-1W	2.97~3.63V (Typ: 3.3VDC)	3.3V/300mA	81%	30mA	10µF
IF0305S-1W		5V/200mA	81%	20mA	10µF
IF0312S-1W		12V/83mA	82%	9mA	4.7µF
IF0315S-1W		15V/67mA	78%	7mA	2.2µF
IF0324S-1W		24V/42mA	82%	4mA	1µF
IF0503S-1W	4.5~5.5V (Typ: 5VDC)	3.3V/300mA	81%	30mA	10µF
IF0505S-1W		5V/200mA	81%	20mA	10µF
IF0512S-1W		12V/83mA	82%	9mA	4.7µF
IF0515S-1W		15V/67mA	78%	7mA	2.2µF
IF0524S-1W		24V/42mA	82%	4mA	1µF

IF1203S-1W		3.3V/300mA	81%	30mA	10uF
IF1205S-1W	10.8~13.2V (Typ: 12VDC)	5V/200mA	83%	20mA	10uF
IF1212S-1W		12V/83mA	79%	9mA	4.7uF
IF1215S-1W		15V/67mA	80%	7mA	2.2uF
IF1224S-1W		24V/42mA	81%	4mA	1uF
IF1503S-1W		3.3V/300mA	81%	30mA	10uF
IF1505S-1W	13.5~16.5V (Typ: 15VDC)	5V/200mA	79%	20mA	10uF
IF1512S-1W		12V/83mA	83%	9mA	4.7uF
IF1515S-1W		15V/67mA	82%	7mA	2.2uF
IF1524S-1W		24V/42mA	79%	4mA	1uF
IF2403S-1W		3.3V/300mA	81%	30mA	10uF
IF2405S-1W	21.6~26.4V (Typ: 24VDC)	5V/200mA	80%	20mA	10uF
IF2412S-1W		12V/83mA	81%	9mA	4.7uF
IF2415S-1W		15V/67mA	82%	7mA	2.2uF
IF2424S-1W		24V/42mA	80%	4mA	1uF

Output Specifications

Item	Operating Conditions	Min	Typ	Max
Output Power		--	--	--
Output Voltage Accuracy	100% load	--	±1%	--
Line Regulation	Input voltage change: ±1%	--	±1.5%	--
Load Regulation	10%~100% Load	--	±1%	--
Ripple & Noise*	20MHz bandwidth (peak-to-peak value)	--	75mV	--
Temperature Drift Coefficient	100% load	--	--	±0.03%/°C

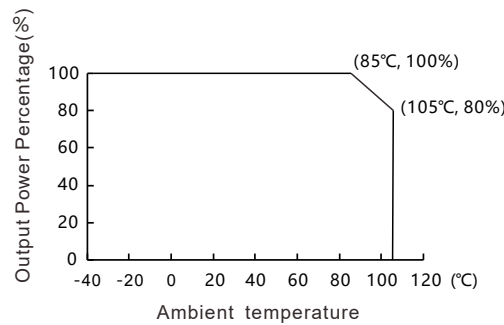
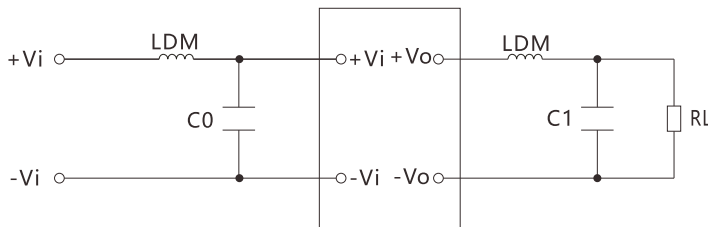
Note: *Ripple and noise tested with "parallel cable" method, please see DC-DC Converter Application Notes for specific operation methods.

General Specifications

Item	Operating Conditions	Min	Typ	Max
Insulation Voltage	Input-Output, Test for 1min	--	3000VDC	--
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)		

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

LDM	6.8μH
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Safety precautions

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 $T_a=25^{\circ}\text{C}$, 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) .