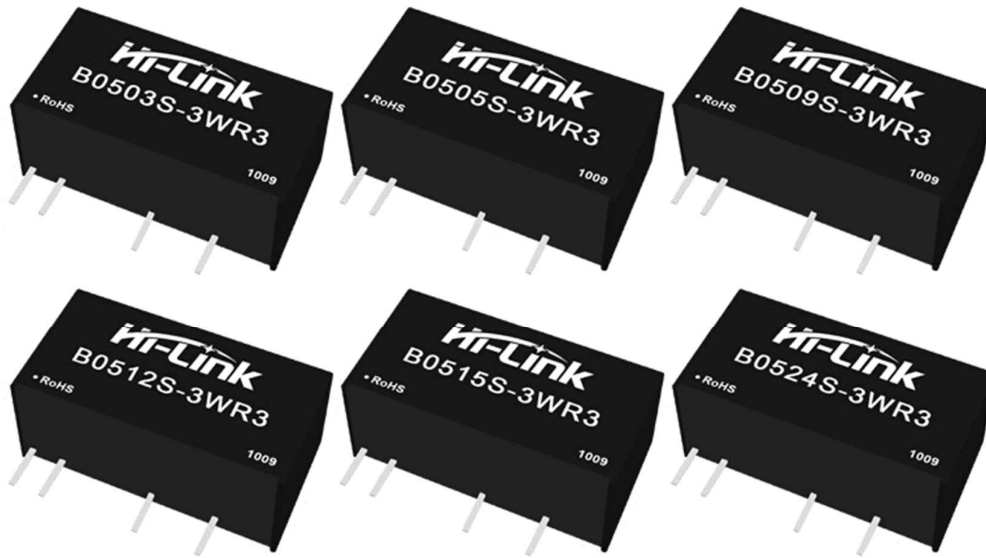


B05_S-3WR3 Serial

Constant voltage 5V (4.5~5.5V) input
Isolated non-stabilized single output 3.3/5/9/12/15/24V



•
B0505S-3WR3 power module B0503/B0509/B0512/B0515/B0524S-3WR3 isolated non stabilized voltage power converter

Product Feature

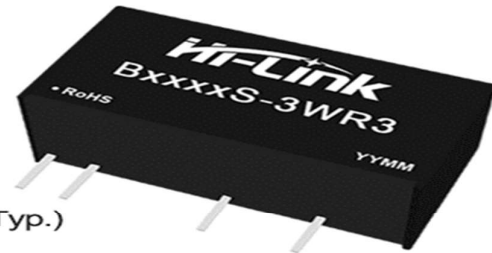
- Constant voltage input, isolated unregulated output, 3W power
- Isolation voltage: 1500VDC
- Low no-load power consumption: 0.025W
- Efficiency: up to 90% (Typ.)
- Working temperature: -40°C~+85°C
- MTBF > 3.5 million hours
- Output short circuit protection: sustainable short circuit protection, automatic recovery
- Small SIP package, Plastic housing International standard pin out
- Ripple/noise (20MHz bandwidth) 30mVp-p

B_S-3WR3 Series Power Module

SELECTION OF POWER SUPPLY MODULE

3W rated voltage input, isolated unregulated single output

- International standard pins
- Isolation voltage 1500VDC
- Continuous short-circuit protection
- High conversion efficiency, up to 90%(Typ.)
- NLow no-load power consumption: 0.025W (Typ.)
- Working temperature -40°C – $+85^{\circ}\text{C}$



Model	Nominal Value($\pm 10\%$)	Output Voltage/Current
B0503S-3WR3	5V (4.5V-5.5V)	3.3V/909mA
B0505S-3WR3		5V/600mA
B0509S-3WR3		9V/333mA
B0512S-3WR3		12V/250mA
B0515S-3WR3		15V/200mA
B0524S-3WR3		24V/125mA
B0903S-3WR3	9V (8.1V-9.9V)	3.3V/909mA
B0905S-3WR3		5V/600mA
B0909S-3WR3		9V/333mA
B0912S-3WR3		12V/250mA
B0915S-3WR3		15V/200mA
B0924S-3WR3		24V/125mA
B1203S-3WR3	12V (10.8V-13.2V)	3.3V/909mA
B1205S-3WR3		5V/600mA
B1209S-3WR3		9V/333mA
B1212S-3WR3		12V/250mA
B1215S-3WR3		15V/200mA
B1224S-3WR3		24V/125mA
B1503S-3WR3	15V (13.5V-16.5V)	3.3V/909mA
B1505S-3WR3		5V/600mA
B1509S-3WR3		9V/333mA
B1512S-3WR3		12V/250mA
B1515S-3WR3		15V/200mA
B1524S-3WR3		24V/125mA
B2403S-3WR3	24V (21.6V-26.4V)	3.3V/909mA
B2405S-3WR3		5V/600mA
B2409S-3WR3		9V/333mA
B2412S-3WR3		12V/250mA
B2415S-3WR3		15V/200mA
B2424S-3WR3		24V/125mA

※ The picture only for reference, please refer to the actual product

Input Characteristics

Item	Working conditions	Min.	Typ.	Max.	Unit
Input current (full load/no load)	5VDC Input Series	--	682/5	--/10	mA
	9VDC Input Series	--	379/5	--/10	
	12VDC Input Series	--	284/2	--/5	
	15VDC Input Series	--	227/2	--/4	
	24VDC Input Series	--	142/1	--/2	
Reflection ripple current		--	15	--	mA
Impulse voltage (1sec.max.)	5VDC Input Series	-0.7	--	9	VDC
	9VDC Input Series	-0.7	--	15	
	12VDC Input Series	-0.7	--	18	
	15VDC Input Series	-0.7	--	21	
	24VDC Input Series	-0.7	--	30	
Input filter type		Capacitance filter type			
Hot plugged		Non-support			

Output Characteristics

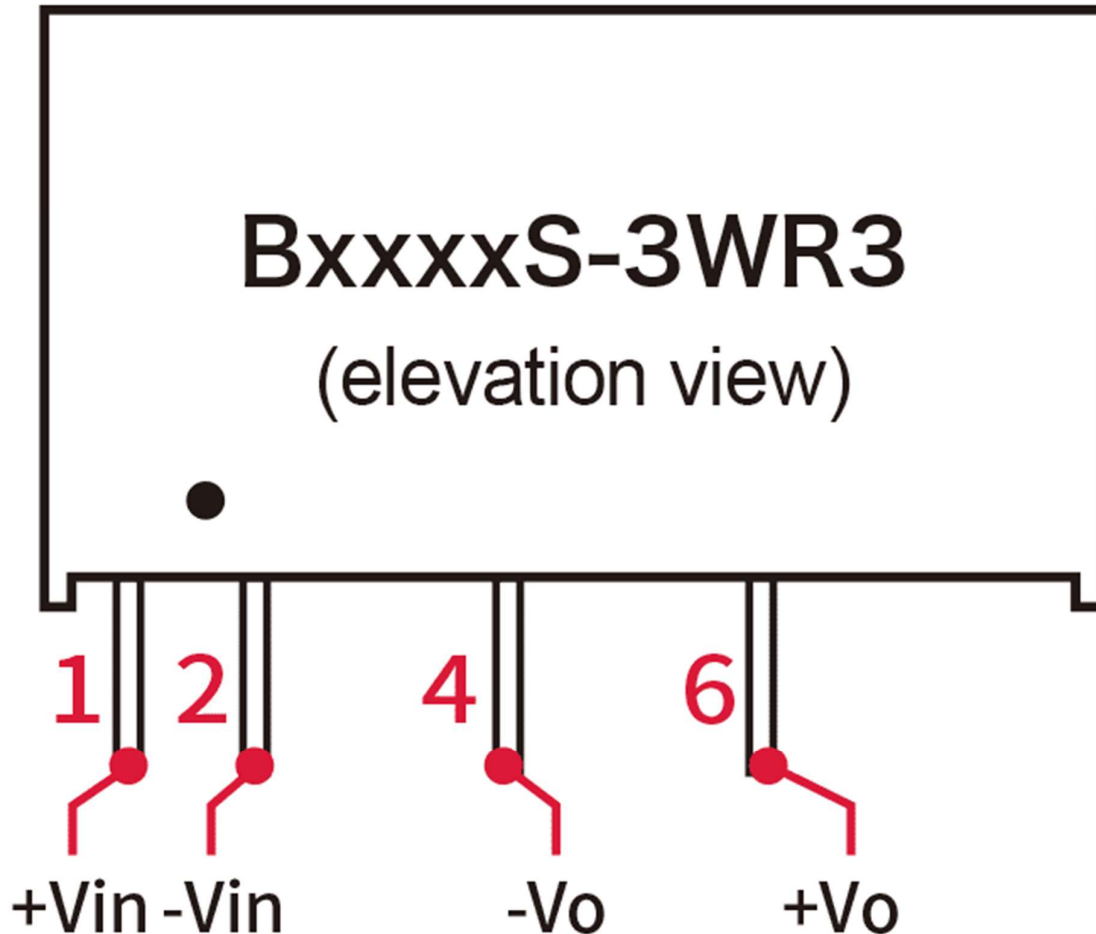
Items	Working and testing condition	Min.	Typ.	Max.	Unit	
Output load	Load percentage	10	--	100	%	
Output Voltage Accuracy	See error envelope graph	--	--	±15.0	%	
Linear adjustment rate	Input voltage variation ±1%	3.3V output	--	--	±1.5	%
		Others	--	--	±1.2	%
Load adjustment rate	10%~100% load	5VDC Output	--	12	--	%
		9VDC Output	--	8	--	%
		12VDC Output	--	7	--	%
		15VDC Output	--	6	--	%
		24VDC Output	--	5	--	%
Ripple & Noise	Pure resistive load, 20Hz bandwidth, peak-to-peak	--	30	80	mVp-p	
Temperature Drift Coefficient	Full load	--	--	±0.03	%/°C	
Output short circuit protection	Continuous short circuit protection, automatic recovery					
Notes: Ripple and Noise Test Methods Twisted Pair Test Method						

Note:

1、 The above is only a list of typical products. If you need products beyond the list, please contact our sales. 2、 The maximum capacitive load indicates the maximum capacitive load that + VO or - vo can be connected to,If the value is exceeded, the product will not start normally..

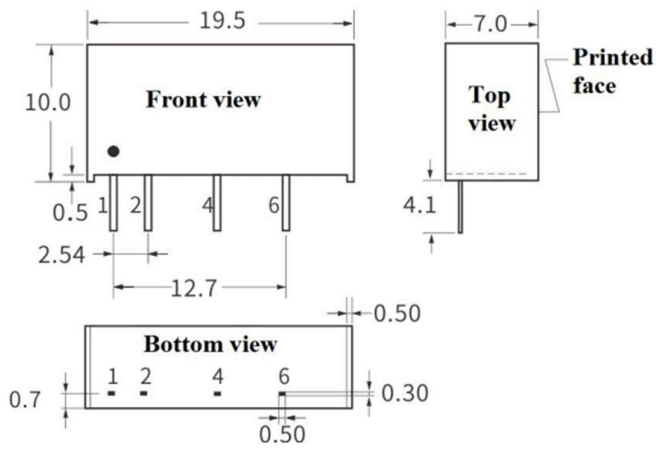
Pin description

PIN DESCRIPTION



Dimension

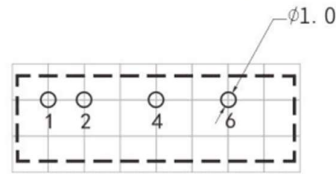
1. Physical dimension (unit:mm,tolerance:xx±0.25)



2. Pin definition

1	2	3	4	5	6
+Vin	-Vin	No Pin	-Vout	No Pin	+Vout

3. Recommended print layout



Note:the grid distance is 2.54*2.54mm

***Note: If the definition of each pin of the power module is inconsistent with the selection manual, the label on the physical label shall prevail.**

Notes: More details please feel free to contact hi-link team.



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