

Typical Performance

FEATURES

- Fixed Input, isolation, unregulated output, single output, 1W
- Isolation voltage: 1000VDC
- SIP package
- Efficiency :up to 80%
- Working temperature -40℃~+85℃
- MTBF≥35x10⁵Hrs
- Industry standard pinout
- No heat sink required
- No external component required
- In line with RoHS codes
- Line regulation (for Vin change of ±1%): ±1.2%(max)
- Load regulation (10%-100% load) 15%
- Ripple and noise (20MHz Band width) <75mVp-p
- Temperature drift(100% full load):±0.03%/℃(max)
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- Switching Frequency(Full load,nominal input):100Khz(typ)
- Storage Temperature:-55℃~+125℃
- Isolation Resistance:1000MΩ/1min
- Isolation capacitance:60Pf(typ)
- Cooling:Free aire convection



3-Years Product Warranty

Product Program

Part #	Input voltage range	Nominal output voltage / output current						Efficiency (%, typ)
		VO1			VO2			
		Voltage (VDC)	Min (mA)	Max (mA)	Voltage (VDC)	Min (mA)	Max (mA)	
B0303S-1W	3.3V(3~3.6VDC)	3.3		303				72
B0305S-1W		5		200				74
B0503S-1W	5V(4.5~5.5VDC)	3.3		303				72
B0505S-1W		5		200				70
B0509S-1W		9		111				78
B0512S-1W		12		83				79
B0515S-1W		15		67				80
B1203S-1W	12V(10.8~13.2VDC)	3.3		303				72
B1205S-1W		5		200				71
B1209S-1W		9		111				76

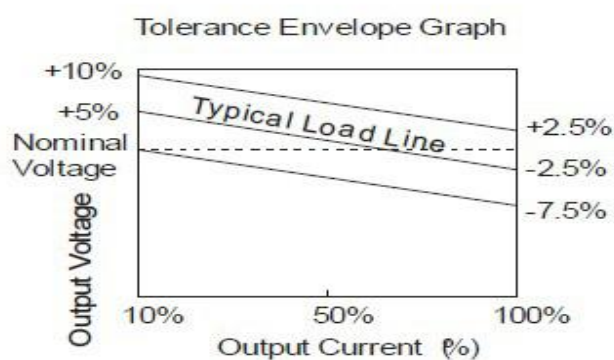
B1212S-1W	15V(13.5~16.5VDC)	12		83				78
B1215S-1W		15		67				80
B1505S-1W		5		200				71
B1515S-1W	24V(21.6~26.4VDC)	15		67				78
B2403S-1W		3.3		303				71
B2405S-1W		5		200				73
B2409S-1W		9		111				78
B2412S-1W		12		83				79
B2415S-1W		15		67				80
B2424S-1W		24		42				80

- Shows the nominal value of input voltage,due to space limitations ,the above list is only for some products,If other than a list of products, please contact the Company's sales department.

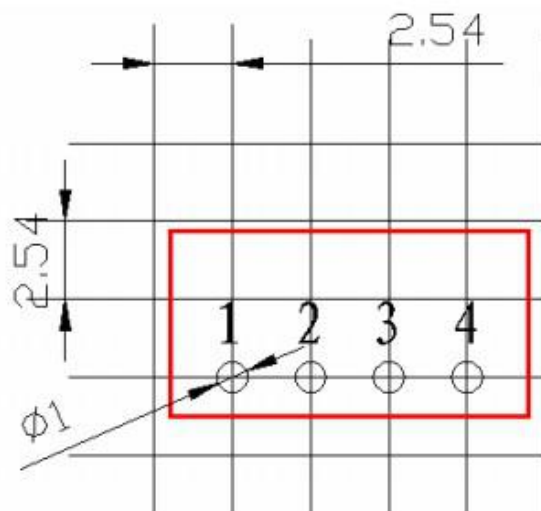
Mechanical Data

Packing Code	L x W x H : mm	Packing No.
B_S-1W	11.5*6*10	

Typical Temperature Curve



Mechanical Dimension



---	---	12 VDC	2.2 uF
---		15 VDC	1 uF

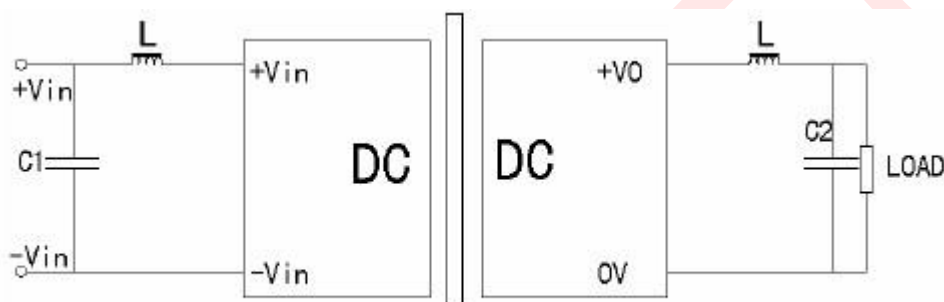
Application Note

(1)Pls don't use under no load: when the load power is less than 10% of the rated power ,we advise to connect the resistance following the output or the selection the smaller rated power module,for the resistance,the value is 5~10% of the rated power,resistance= $U_2 / (10\% \times 1W)$

(2)Pls don't connect the excessive capacitor in external circuit :output connects C2's value can't be too big,, otherwise easily lead to module startup flow or poor starting,

According to the external table to select the capacitance

(3)For the ripple&noise with higher requirements ,we advise to connect the LC filter, the frequency of LC filter is far smaller than the DC / DC module switching frequency, prevent mutual interference, resulting in increased the ripple damage the power module,pls see below



*Note: The power modules such as the definition of the pin does not match with the hand book,please refer to the actual item.