

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)
- Switching Frequency(Full load,nominal input):100Khz(typ)
- Storage Temperature:-55℃~+125℃
- Isolation Resistance:1000MΩ/1min
- Isolation capacitance:130Pf(typ)
- Cooling:Free aire converction



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)	
B0303LS-1W	3.3V(3~3.6V)	3.3		303				73
B0305LS-1W		5		200				74
B0503LS-1W	5V(4.5~5.5VDC)	3.3		303				72
B0505LS-1W		5		200				70
B0509LS-1W		9		111				78
B0512LS-1W		12		83				78
B0515LS-1W		15		67				80
B0524LS-1W		24		42				81
B1203LS-1W	12V(10.8~13.2VDC)	3.3		303				74
B1205LS-1W		5		200				71

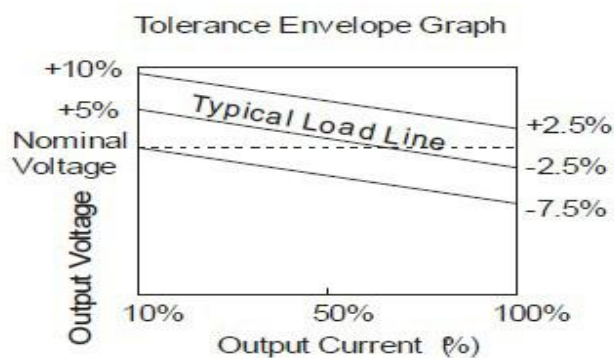
B1209LS-1W		9		111				76
B1212LS-1W		12		83				78
B1215LS-1W		15		67				79
B1224LS-1W		24		42				84
B1505LS-1W	15V(13.5~16.5VDC)	5		200				72
B1512LS-1W		12		83				76
B1515LS-1W		15		67				75
B2405LS-1W	24V(21.6~26.4VDC)	5		200				73
B2412LS-1W		12		83				78
B2415LS-1W		15		67				79
B2424LS-1W		24		42				78

- 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.

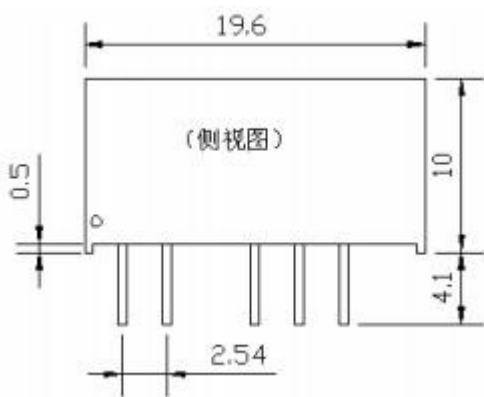
Mechanical Data

Packing Code	L x W x H : mm	Packing No.
B_LS-1W	19.5*6.0*10.0	

Typical Temperature Curve



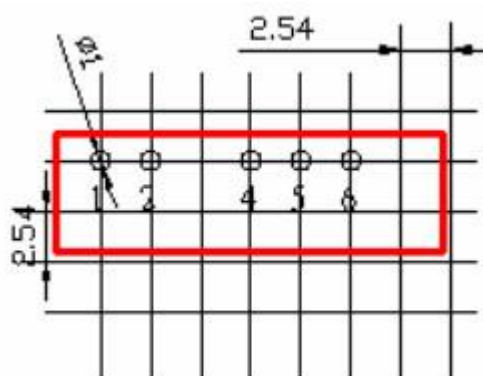
Mechanical Dimension



LATERAL VIEW



BOTTOM VIEW



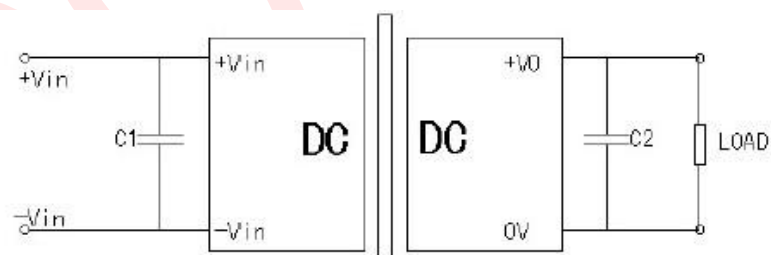
Recommended PCB Layout

UNIT:mm

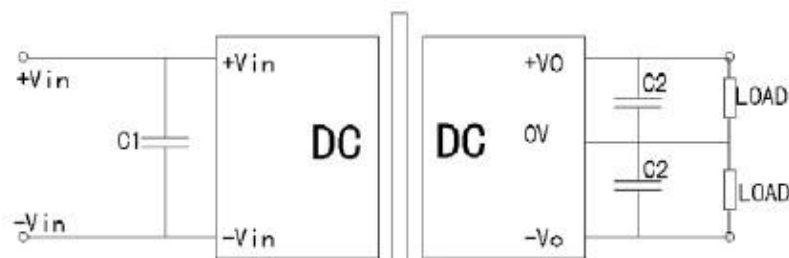
Pin Assignment

PIN	1	2	4	5	6					
Single output	Vin	GND	0V	No Pin	+Vo					

Recommend Circuit



Single O/P



Dual O/P

C1、C2 select

INPUT VOLTAGE	C1	DUAL OUTPUT VOLTAGE	C2	SINGLE OUTPUT VOLTAGE	C2
5VDC	4.7 uF	±5 VDC	4.7uF	3.3VDC	10 uF
12VDC	2.2 uF	±9 VDC	2.2 uF	5VDC	10 uF
24VDC	1 uF	±12 VDC	1 uF	9VDC	4.7 uF
---	---	±15 VDC	1 uF	12VDC	2.2 uF
---	---	---	---	15/24VDC	1 uF

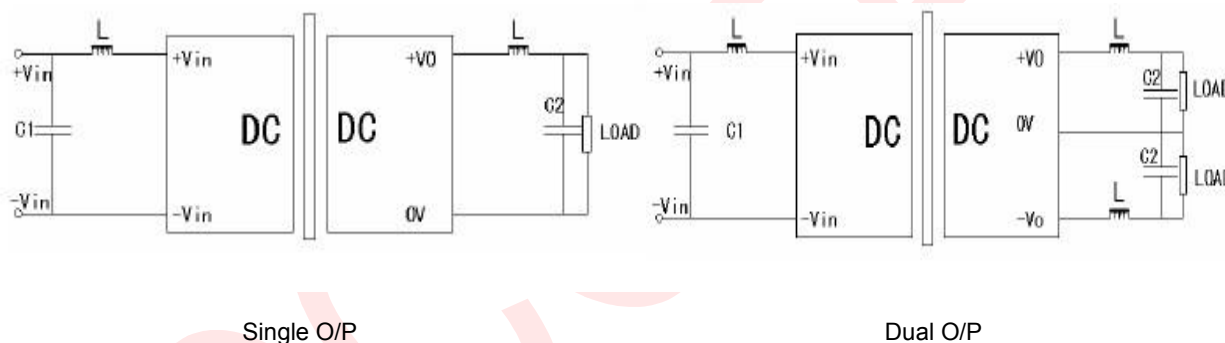
Application Note

(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.