

Typical Performance

FEATURES

- Fixed Input, isolation, regulated output, single output, 1W
- Isolation voltage: 1000VDC
- SIP package
- Efficiency :up to 80%
- Working temperature -40°C~+85°C
- MTBF≥35x10⁵Hrs
- Industry standard pinout
- No heat sink required
- No external component required
- In line with RoHS codes
- Line regulation (for Vin change of ±5%): ±0.25%(max)
- Load regulation (10%-100% load) :1%
- Ripple(20MHz Band width) <20mVp-p, noise(20MHz Band width)<100mVp-p
- Temperature drift(100% full load):±0.03%/°C(max)
- Switching Frequency(Full load,nominal input):100Khz(typ)
- Storage Temperature:-55°C~+125°C
- Isolation Resistance:1000MΩ/1min
- Isolation capacitance:130Pf(typ)
- Cooling:Free air convection



Product Program

Part #	Input voltage range	Nominal output voltage / output current						Efficiency (%, typ)
		VO1			VO2			
		Voltage	Min	Max	Voltage	Min	Max	
IB0505LS-1W	5V(4.75~5.25VDC)	5		200				66
IB0509LS-1W		9		111				70
IB0512LS-1W		12		83				71
IB0515LS-1W		15		67				73
IB0524LS-1W		24		42				68
IB1205LS-1W	12 V(11.4~12.6VDC)	5		200				67
IB1209LS-1W		9		111				72
IB1212LS-1W		12		83				70
IB1215LS-1W		15		67				74
IB1224LS-1W		24		42				68
IB1505LS-1W	15V(14.2~15.75VDC)	5		200				67

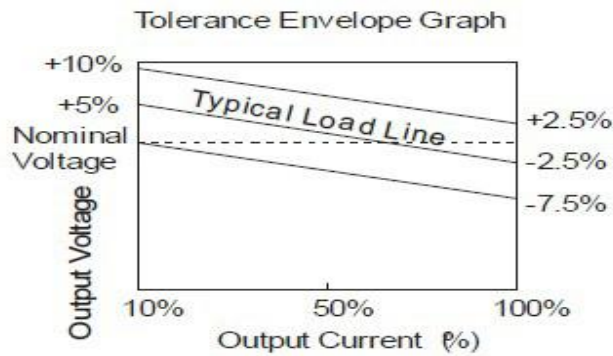
IB1509LS-1W		9		111				71
IB1512LS-1W		12		83				71
IB1515LS-1W		15		67				72
IB1524LS-1W		24		42				68
IB2405LS-1W	24V(22.8~25.2VDC)	5		200				68
IB2409LS-1W		9		111				68
IB2412LS-1W		12		83				73
IB2415LS-1W		15		67				75
IB2424LS-1W		24		42				68

□ 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.

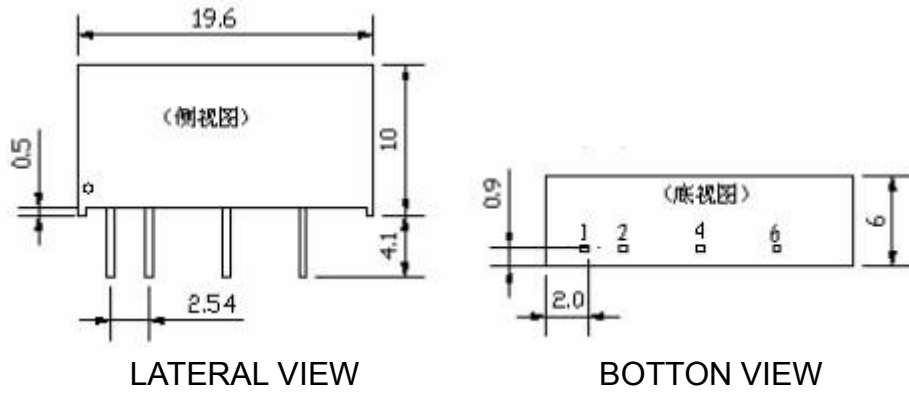
Mechanical Data

Packing Code	L x W x H : mm	Packing No.
IB_LS-1W	19.5*6*10.00	

Typical Temperature Curve

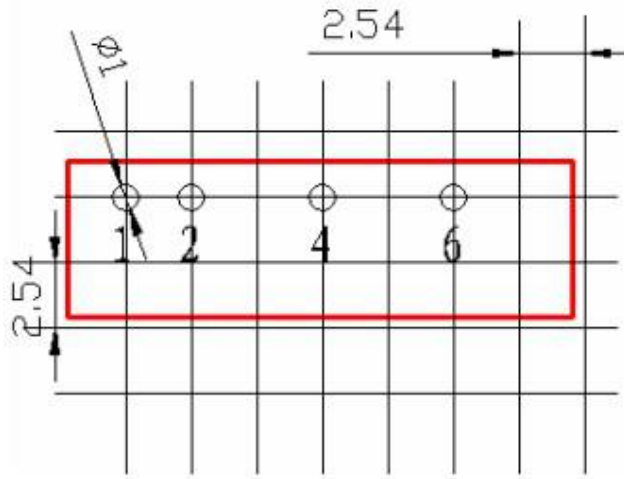


Mechanical Dimension



LATERAL VIEW

BOTTOM VIEW



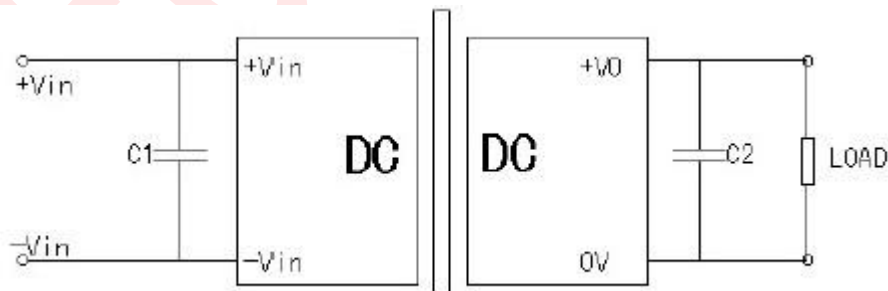
Recommended PCB Layout

UNIT:mm

Pin Assignment

PIN	1	2	4	6					
Single output	Vin	GND	0V	+Vo					

Recommend Circuit



C1, C2 select

Single O/P			
INPUT VOLTAGE	C1	OUTPUT VOLTAGE	C2
5VDC	4.7uF	5VDC	10uF
12VDC	2.2uF	9VDC	4.7uF
24VDC	1uF	12VDC	2.2uF

15VDC

1uF

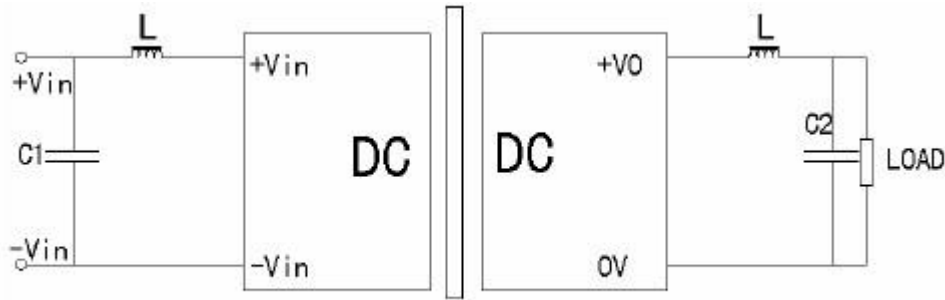
Application Note

(1)PIs 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, $\text{resistance} = U_2 / (10\% \times 1W)$

(2)PIs 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



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