

Typical Performance

FEATURES

- Fixed Input, isolation, Unregulated Output,0.5W
- Isolation voltage: 1000VDC,1500VDC,3000DVC
- 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

LN	0.25	xx	S/D	XX	S/S3
①	②	③	④	⑤	⑥

- ①Series name
- ②Output watt
- ③Normal input voltage
- ④S:Single output
D: Dual output
- ⑤Output voltage
- ⑥I/O isolation(S:1KV,no S:1.5KV,S3:3KV)

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)	
LN0.5-05S05	5V（4.5~5.5VDC）	5V	10	100				
LN0.5-05S09		9V	5.5	55				
LN0.5-05S12		12V	4.1	41				
LN0.5-05S15		15V	3.3	33				
LN0.5-05S24		24V	2	20				
LN0.5-05D05		5V	5	50	-5V	5	50	
LN0.5-05D09		9V	2.7	27	-9V	2.7	27	
LN0.5-05D12		12V	2	20	-12V	2	20	
LN0.5-05D15		15V	1.6	16	-15V	1.6	16	

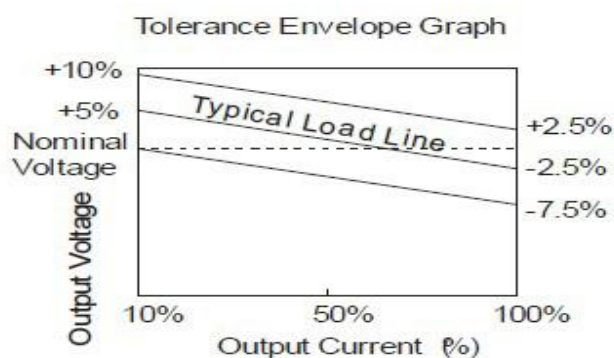
LN0.5-05D24	12 V (10.8~13.2VDC)	24V	1	10	-24V	1	10	
LN0.5-12S05		5V	10	100				
LN0.5-12S09		9V	5.5	55				
LN0.5-12S12		12V	4.1	41				
LN0.5-12S15		15V	3.3	33				
LN0.5-12S24		24V	2	20				
LN0.5-12D05		5V	5	50	-5V	5	50	
LN0.5-12D09		9V	2.7	27	-9V	2.7	27	
LN0.5-12D12		12V	2	20	-12V	2	20	
LN0.5-12D15		15V	1.6	16	-15V	1.6	16	
LN0.5-12D24		24V	1	10	-24V	1	10	
LN0.5-24S05	24V (21.6~26.4VDC)	5V	10	100				
LN0.5-24S09		9V	5.5	55				
LN0.5-24S12		12V	4.1	41				
LN0.5-24S15		15V	3.3	33				
LN0.5-24S24		24V	2	20				
LN0.5-24D05		5V	5	50	-5V	5	50	
LN0.5-24D09		9V	2.7	27	-9V	2.7	27	
LN0.5-24D12		12V	2	20	-12V	2	20	
LN0.5-24D15		15V	1.6	16	-15V	1.6	16	
LN0.5-24D24		24V	1	10	-24V	1	10	

- 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.

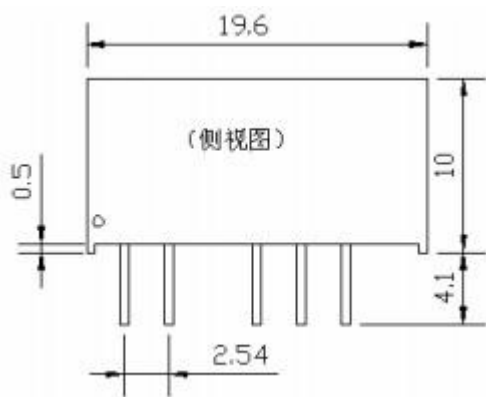
Mechanical Data

Packing Code	L x W x H : mm	Packing No.
A	19.5 x 10.00 x6	

Typical Temperature Curve



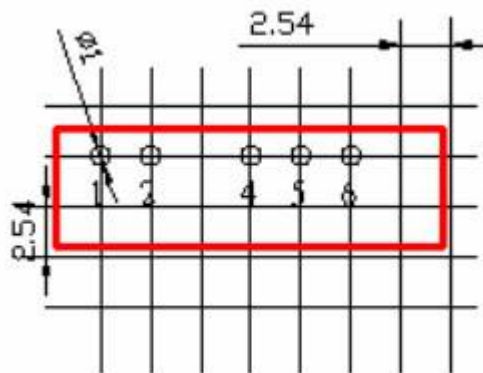
Mechanical Dimension



LATERAL VIEW



BOTTOM VIEW



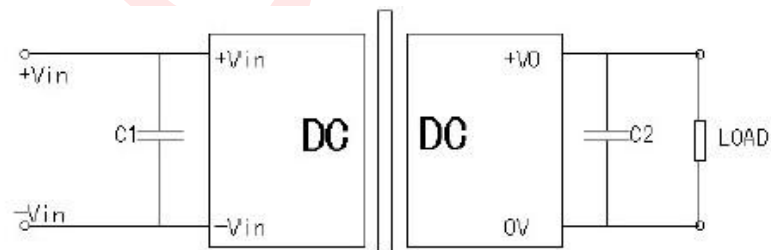
Recommended PCB Layout

UNIT:mm

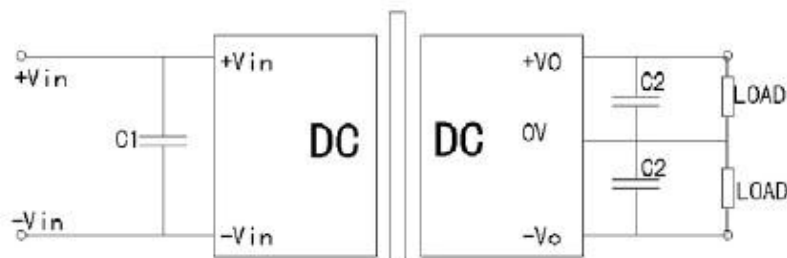
Pin Assignment

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

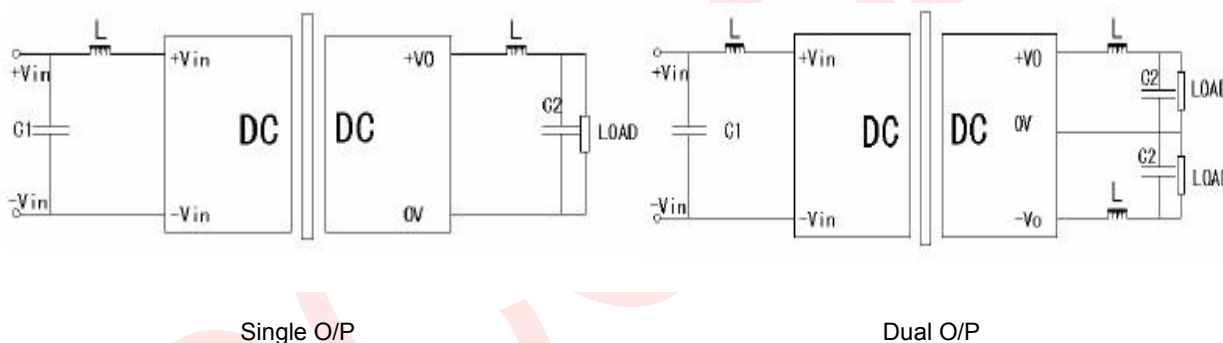
Application Note

(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.