

Typical Performance

FEATURES

- Fixed Input, isolation, Unregulated Output,2W
- Isolation voltage: 1000VDC,1500VDC,3000VDC
- 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):70Khz(typ)
- Storage Temperature:-55℃~+125℃
- Isolation Resistance:1000MΩ/1min
- Cooling:Free aire converction



3-Years Product Warranty

LN 0.25 xx S/D XX S/S3
 ① ② ③ ④ ⑤ ⑥

- ① Series name
- ② Output watt
- ③ Normal input voltage
- ④ S:Single output
D: Dual output
- ⑤ Output voltage
- ⑥ I/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)	
LN2-05S05S	5V (4.5~5.5VDC)	5V	40	400				
LN2-05S09		9V	22	220				
LN2-05S12		12V	16	166				
LN2-05S15		15V	13.6	136				
LN2-05S24		24V	8.4	84				
LN2-05D05		5V	20	200	-5V	20	200	
LN2-05D09S3		9V	11	110	-9V	11	110	
LN2-05D12S		12V	8	83	-12V	8	83	
LN2-05D15		15V	6.8	68	-15V	6.8	68	
LN2-05D24		24V	4.2	42	-24V	4.2	42	
LN2-12S05		5V	40	400				

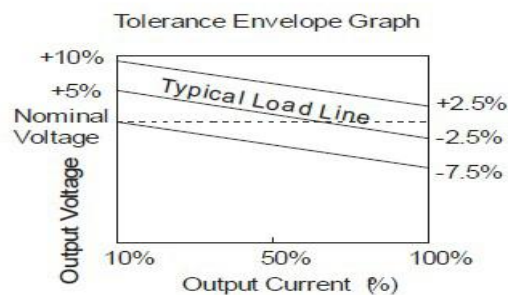
LN2-12S09		9V	22	220				
LN2-12S12		12V	16	166				
LN2-12S15		15V	13.6	136				
LN2-12S24		24V	8.4	84				
LN2-12D05		5V	20	200	-5V	20	200	
LN2-12D09		9V	11	110	-9V	11	110	
LN2-12D12		12V	8	83	-12V	8	83	
LN2-12D15		15V	6.8	68	-15V	6.8	68	
LN2-12D24		24V	4.2	42	-24V	4.2	42	
LN2-24S05		24V (21.6~26.4VDC)	5V	40	400			
LN2-24S09	9V		22	220				
LN2-24S12	12V		16	166				
LN2-24S15	15V		13.6	136				
LN2-24S24	24V		8.4	84				
LN2-24D05	5V		20	200	-5V	20	200	
LN2-24D09	9V		11	110	-9V	11	110	
LN2-24D12S	12V		8	83	-12V	8	83	
LN2-24D15	15V		6.8	68	-15V	6.8	68	
LN2-24D24	24V		4.2	42	-24V	4.2	42	

- 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.

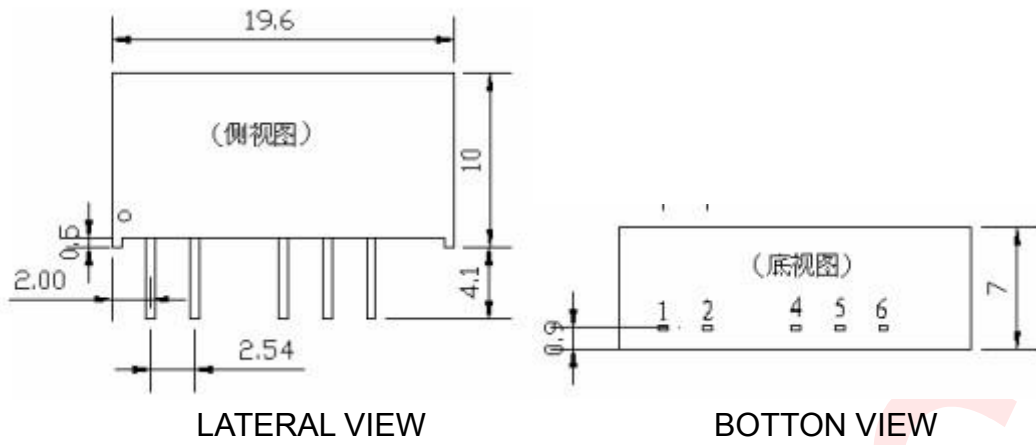
Mechanical Data

Packing Code	L x W x H : mm	Packing No.
A	19.5 x 10.00 x 7	

Typical Temperature Curve

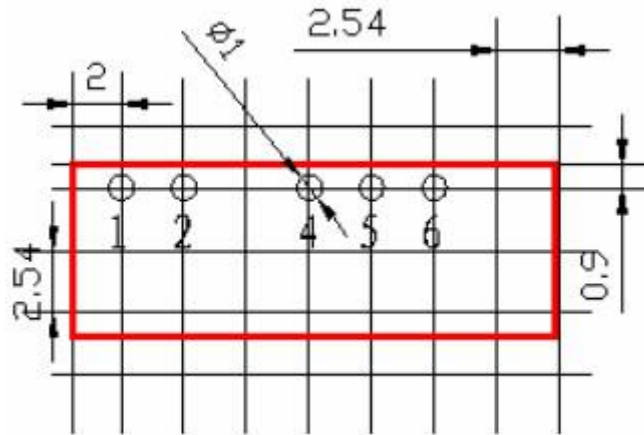


Mechanical Dimension



LATERAL VIEW

BOTTOM VIEW



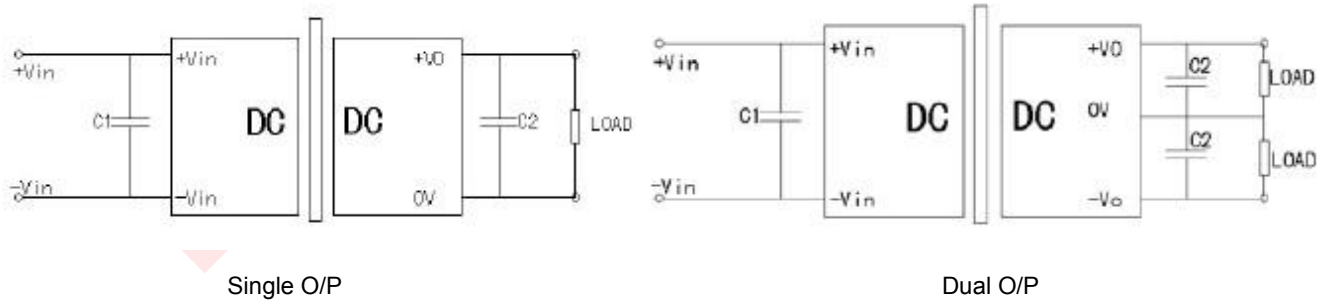
Recommended PCB Layout

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 O/P VOLTAGE	C2	SINGLE O/P VOLTAGE	C2
5VDC	4.7uF	±5VDC	4.7uF	3.3VDC	10uF
12VDC	2.2uF	±9VDC	2.2uF	5VDC	10uF
24VDC	1uF	±12VDC	1uF	9VDC	4.7uF

---	---	±15VDC	1uF	12VDC	2.2uF
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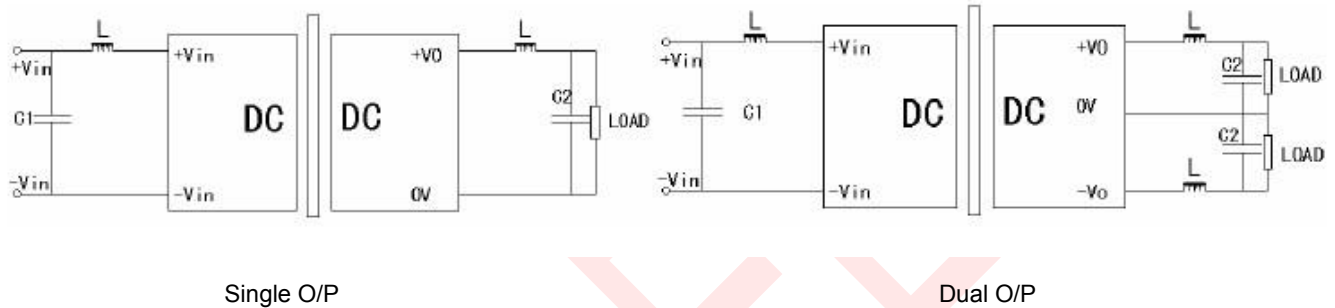
Application Note

(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, $\text{resistance} = U_2 / (10\% \times 2W)$

(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.