

### Typical Performance

#### FEATURES

- Fixed Input, isolation, unregulated output,dual output,2W
- Isolation voltage: 3000VDC
- SIP package
- Efficiency :up to 80%
- Working temperature -40℃~+85℃
- MTBF≥35x10<sup>5</sup>Hrs
- 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 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)	
E0505S-2W	5V（4.5~5.5VDC）	±5		±200				82
E0509S-2W		±9		±111				83
E0512S-2W		±12		±83				84
E0515S-2W		±15		±67				82
E1203S-2W	12 V（10.8~13.2VDC）	±3		±303				76
E1205S-2W		±5		±200				80
E1209S-2W		±9		±111				83
E1212S-2W		±12		±83				85
E1215S-2W		±15		±67				82
E1515S-2W	15V(13.5~16.5VDC)	±15		±67				82
E2405S-2W	24V（21.6~26.4VDC）	±5		±200				82
E2409S-2W		±9		±111				82

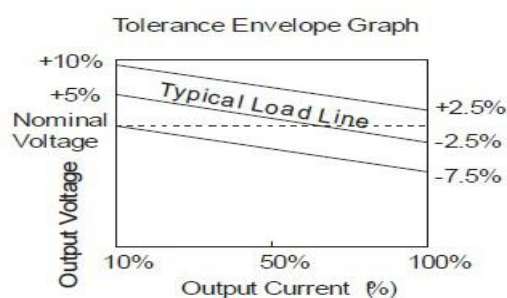
E2412S-2W		±12		±83				85
E2415S-2W		±15		±67				85

- 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.

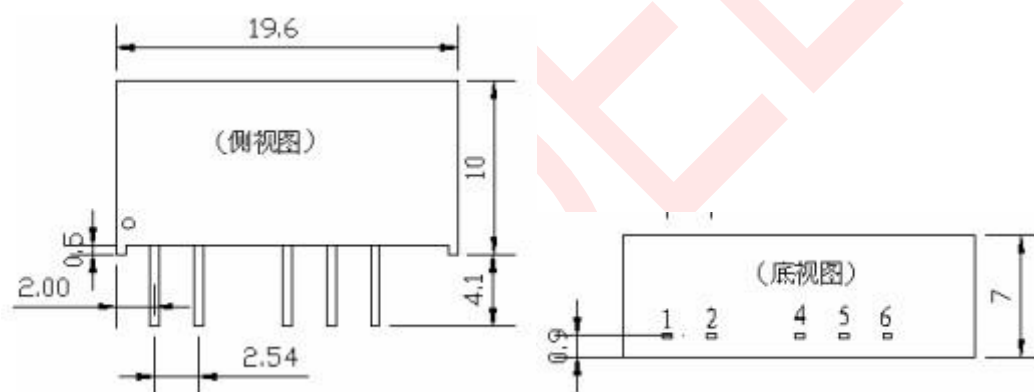
## Mechanical Data

Packing Code	L x W x H : mm	Packing No.
E_S-2W	19.5*7*10.0	

## Typical Temperature Curve

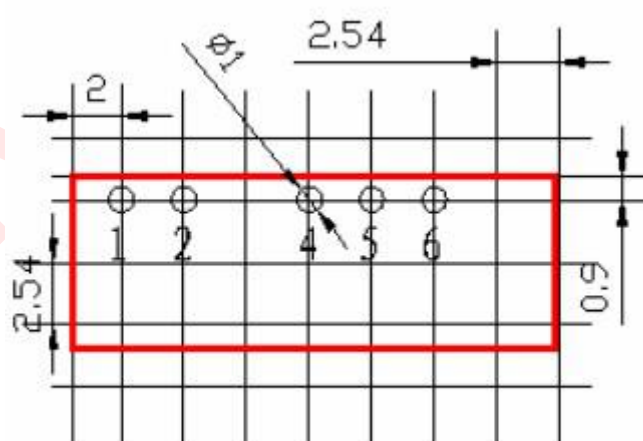


## Mechanical Dimension



LATERAL VIEW

BOTTOM VIEW



Recommended PCB Layout

UNIT:mm

## Pin Assignment

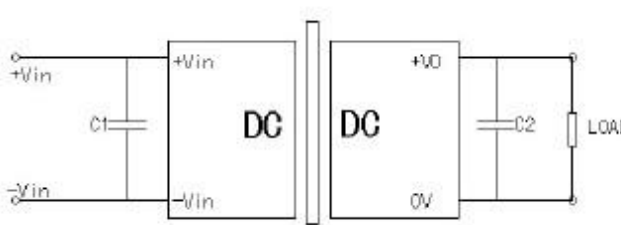
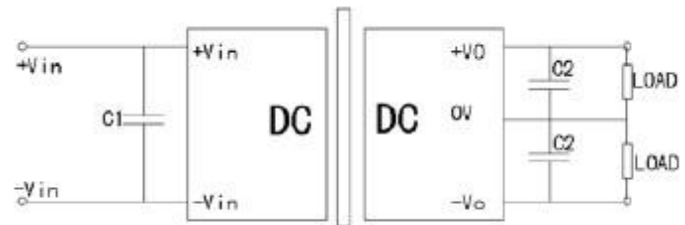
PIN	1	2	4	5	6			
-----	---	---	---	---	---	--	--	--

Dual output	Vin	GND	-Vo	0V	+Vo			
-------------	-----	-----	-----	----	-----	--	--	--

<b>Recommend Circuit</b>								
--------------------------	--	--	--	--	--	--	--	--

Single O/P

Dual O/P

<b>C1、C2 select</b>					
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
---	---	---	---	15/24VDC	1uF

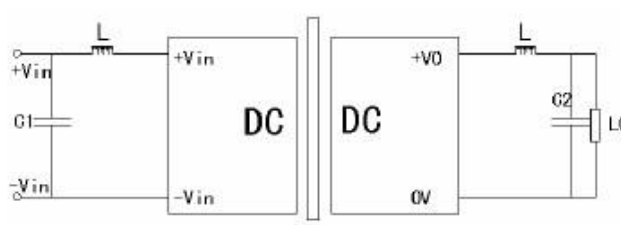
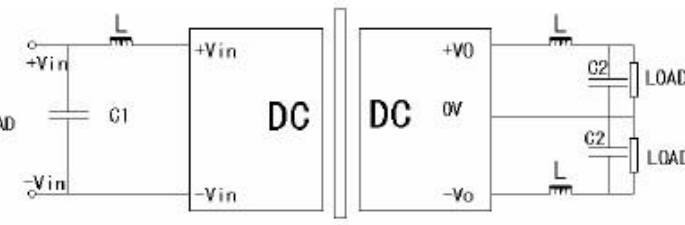
<b>Application Note</b>								
-------------------------	--	--	--	--	--	--	--	--

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

(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,pls see below

Single O/P

Dual O/P

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