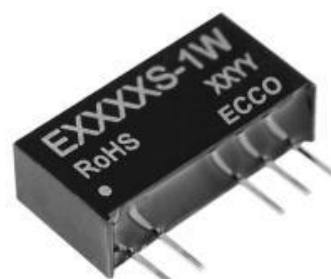


Typical Performance

FEATURES

- Fixed Input, isolation,unregulated output,dual output,1W
- Isolation voltage: 3000VDC
- SIP package,with short circuit protect
- 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 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-1WR2	5V（4.5~5.5VDC）	±5		±100				71
E0509S-1WR2		±9		±56				77
E0512S-1WR2		±12		±42				78
E0515S-1WR2		±15		±33				79
E1205S-1WR2	12 V（10.8~13.2VDC）	±5		±100				73
E1209S-1WR2		±9		±56				77
E1212S-1WR2		±12		±42				80
E1215S-1WR2		±15		±33				80
E2405S-1WR2	24V（21.6~26.4VDC）	±5		±100				73
E2409S-1WR2		±9		±56				77

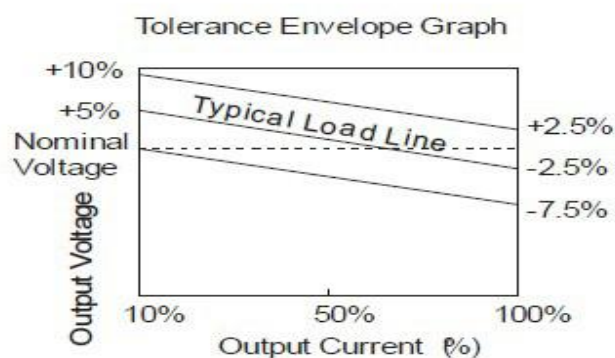
E2412S-1WR2		±12		±42				80
E2415S-1WR2		±15		±33				80

- 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.

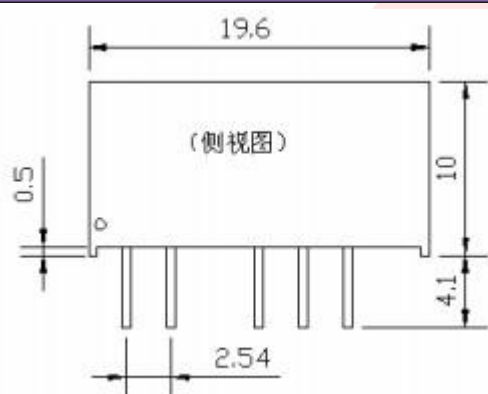
Mechanical Data

Packing Code	L x W x H : mm	Packing No.
E_S-1WR2	19.5*6.0*10.0	

Typical Temperature Curve



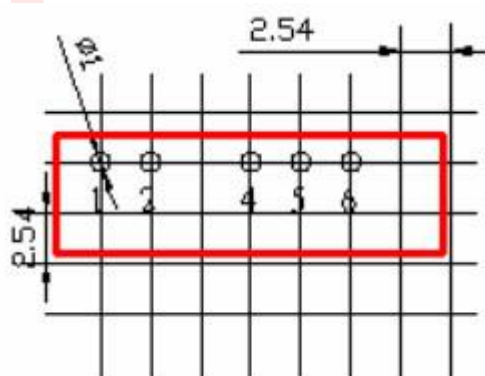
Mechanical Dimension



LATERAL VIEW



BOTTOM VIEW



Recommended PCB Layout

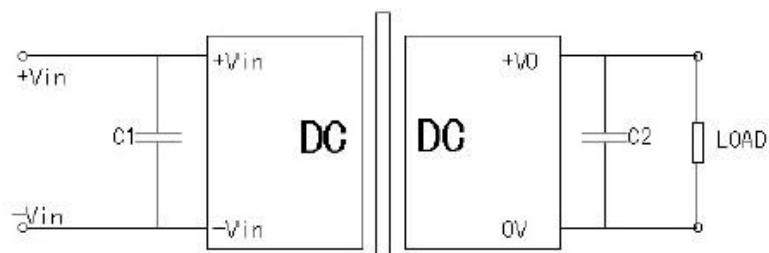
UNIT:mm

Pin Assignment

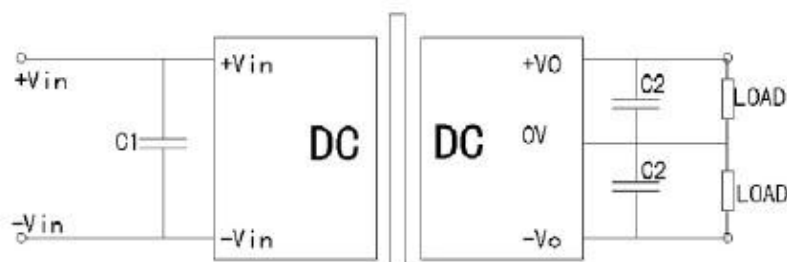
PIN	1	2	4	5	6					
-----	---	---	---	---	---	--	--	--	--	--

Dual ouput	Vin	GND	-Vo	0V	+Vo						
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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

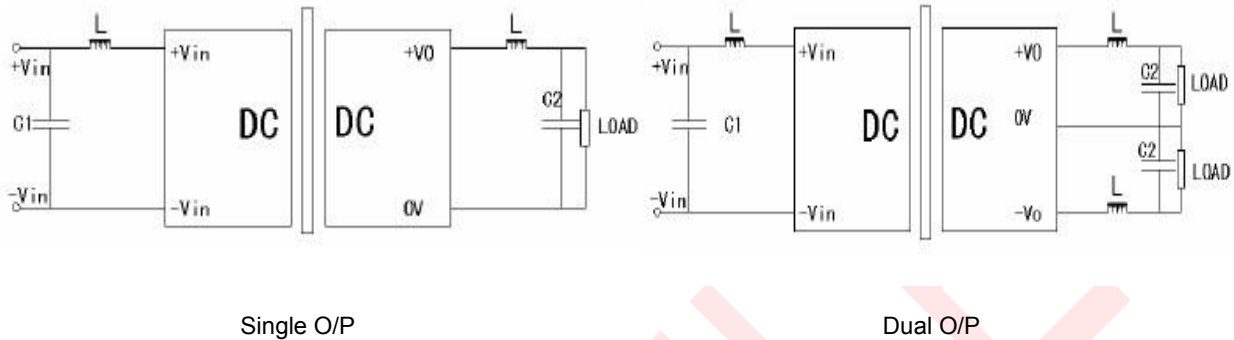
Application Note

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

(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.