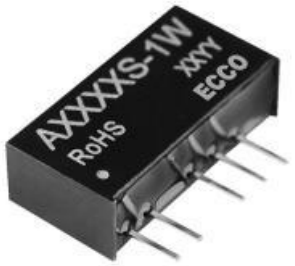
ECCO Electronics Technology Co.,ltd

A_S-1W Series

Typical Performance

FEATURES

- Fixed Input, isolation,unregulated output,dual output,1W
- Isolation voltage: 1000VDC
- SIP package
- Efficiency :up to 80%
- Working temperature -40℃~+85℃
- MTBF≥35x10^{5}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):100Khz(typ)
- Storage Temperature:-55℃~+125℃
- Isolation Resistance:1000MΩ/1min
- Isolation capacitance:130Pf(typ)
- Cooling:Free aire converction



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)	
A0505S-1W	5V(4.5~5.5VDC)	±5		±100				72
A0509S-1W		±9		±56				77
A0512S-1W		±12		±42				79
A0515S-1W		±15		±34				80
A0524S-1W		±24		±21				81
A1205S-1W	12V(10.8~13.2VDC)	±5		±100				72
A1209S-1W		±9		±56				78
A1212S-1W		±12		±42				79
A1215S-1W		±15		±34				78
A1505S-1W	15V(13.5~16.5VDC)	±5		±100				72

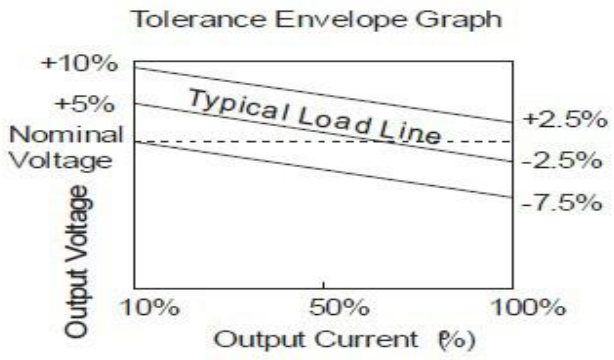
A1512S-1W		±12		±42				76
A1515S-1W		±15		±34				79
A2405S-1W		±5		±100				73
A2409S-1W		±9		±56				79
A2412S-1W	24V(21.6~26.4VDC)	±12		±42				80
A2415S-1W		±15		±34				80
A2424S-1W		±24		±21				81

□ 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.

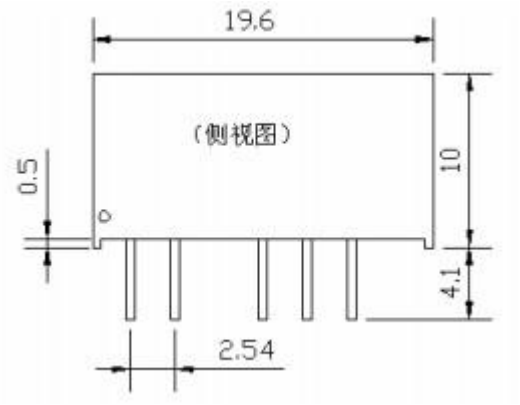
Mechanical Data

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

Typical Temperature Curve



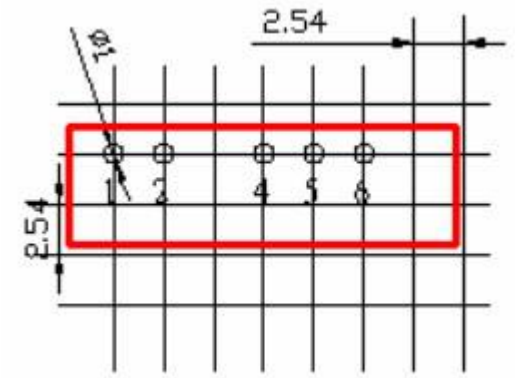
Mechanical Dimension



LATERAL VIEW



BOTTON VIEW



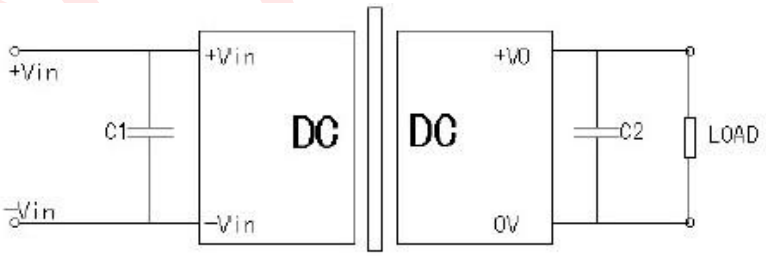
Recommended PCB Layout

UNIT:mm

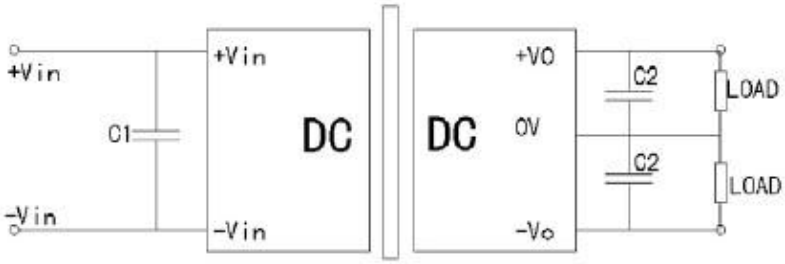
Pin Assignment

PIN	1	2	4	5	6					
Dual ouput	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

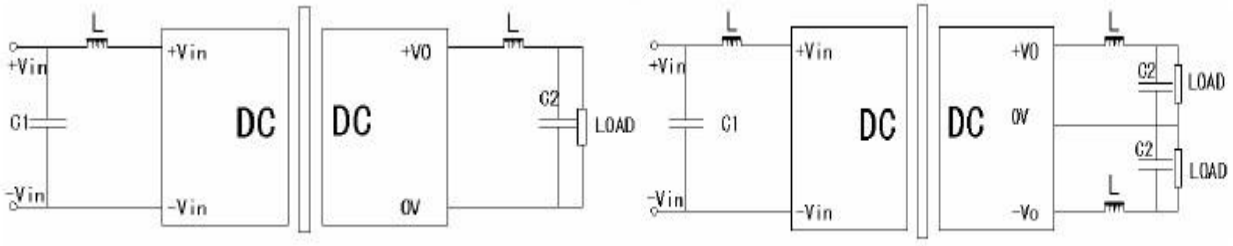
Application Note

(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%×1W）

(2)Pls don't connect the excessive capacitor in external circut :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.