ECCO Electronics Technology Co.,ltd

D_S-2W series

Typical Performance

F E A T U R E S

- Fixed Input, isolation, unregulated output,dual output,2W
- 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):70Khz(typ)
- Storage Temperature:-55℃~+125℃
- Isolation Resistance:1000MΩ/1min
- Cooling:Free aire converction

3-Years Product Warranty

Product Program

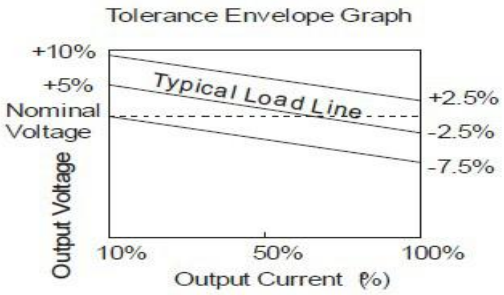
Part #	Input voltage range	Nominal output voltage / output current						Efficiency (%, typ)
		VO1			VO2			
		Voltage (VDC)	Min (mA)	Max (mA)	Voltage (VDC)	Min (mA)	Max (mA)	
D050505S-2W	5V（4.5~5.5VDC）	5/5	200/20					80
D050909S-2W		9/9	111/111					82
D051212S-2W		12/12	83/83					82
D051515S-2W		15/15	67/67					83
D120505S-2W	12 V（10.8~13.2VDC）	5/5	200/20					80
D120909S-2W		9/9	111/111					83
D121212S-2W		12/12	83/83					85
D121515S-2W		15/15	67/67					83
D240505S-2W	24V（21.6~26.4VDC）	5/5	200/20					81
D240909S-2W		9/9	111/111					82
D241212S-2W		12/12	83/83					84
D241515S-2W		15/15	67/67					84

□ 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.

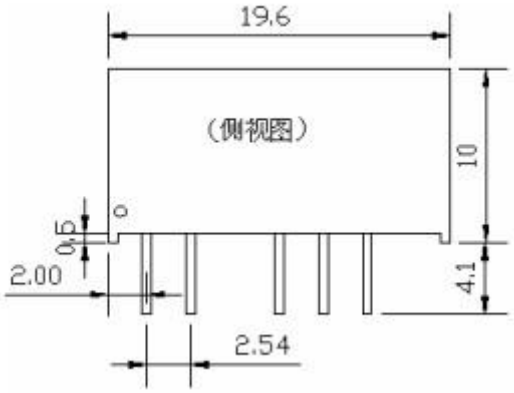
Mechanical Data

Packing Code	L x W x H ： mm	Packing No.
D_S-2W	19.50*7*10.	

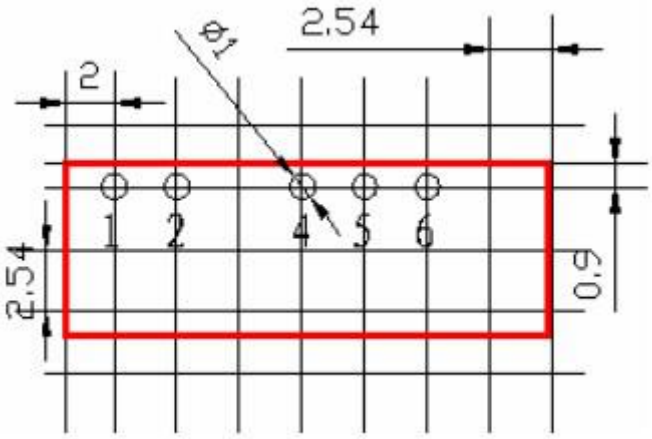
Typical Temperature Curve



Mechanical Dimension



LATERAL VIEW BOTTON VIEW



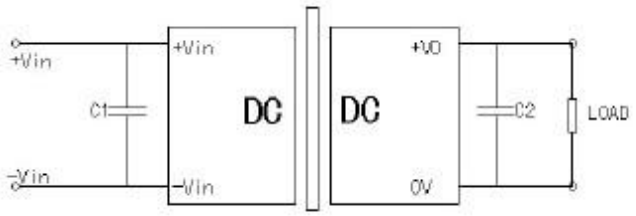
Recommended PCB Layout

UNIT:mm

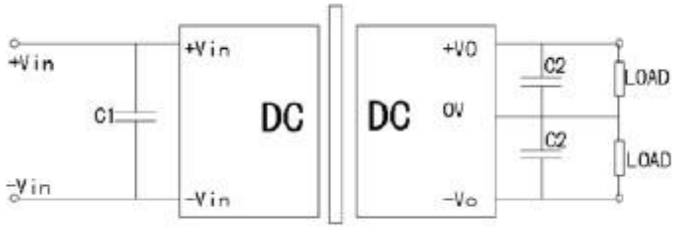
Pin Assignment

PIN	1	2	4	5	6	7		
Isolation dual output	Vin	GND	0V	+Vo1	0V2	+Vo2		

Recommend Circuit



Single O/P



Dual O/P

C1、C2 select

INPUT VOLTAGE	C1	DUAL O/P VOLTAGE	C2		
5VDC	4.7uF	5VDC	4.7uF		
12VDC	2.2uF	9VDC	2.2uF		
24VDC	1uF	12VDC	1uF		
		15VDC	0.47uF		
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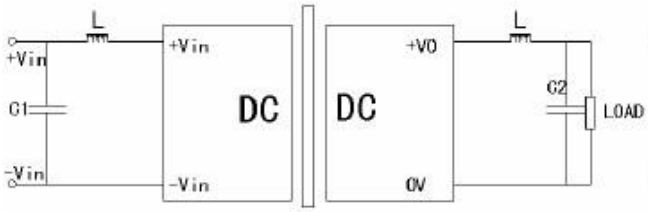
Application Note

(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,resistance=U_2/（10%×2W）

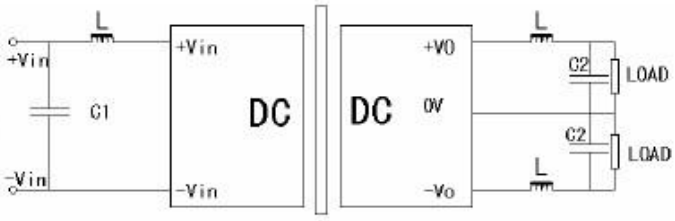
(2)Pls don't connect the excessive capacitor in external circut :output connects C2's value can't be too big,, otherwise easily lead to module startup flow or poor starting,

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.