

Typical Performance

FEATURES

- Fixed Input, isolation, regulated 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 ±5%): ±0.5%(max)
- Load regulation (10%-100% load) :1.5%
- Ripple(20MHz Band width) <30mVp-p,noise(20MHz Band width)<150mVp-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

SW 2 XX S/D XX S/S3
① ② ③ ④ ⑤ ⑥

①Series name
②Output watt
③Normal input voltage
④S:Single output
D: Dual output
⑤Output voltage
⑥I/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)	
SW2-05S05	5V（4.75~5.25VDC）	5V	40	400				
SW2-05S09		9V	22	220				
SW2-05S12		12V	16	166				
SW2-05S15		15V	13.6	136				
SW2-05S24		24V	8.4	84				
SW2-05D05		5V	20	200	-5V	20	200	
SW2-05D09		9V	11	110	-9V	11	110	
SW2-05D12		12V	8	83	-12V	8	83	
SW2-05D15		15V	6.8	68	-15V	6.8	68	
SW2-05D24		24V	4.2	42	-24V	4.2	42	
SW2-12S05			5V	40	400			

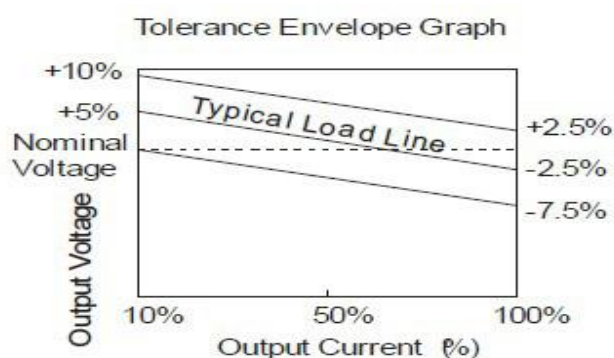
SW2-12S09		9V	22	220				
SW2-12S12		12V	16	166				
SW2-12S15		15V	13.6	136				
SW2-12S24		24V	8.4	84				
SW2-12D05		5V	20	200	-5V	20	200	
SW2-12D09		9V	11	110	-9V	11	110	
SW2-12D12		12V	8	83	-12V	8	83	
SW2-12D15		15V	6.8	68	-15V	6.8	68	
SW2-12D24		24V	4.2	42	-24V	4.2	42	
SW2-24S05	24V (22.8~25.2VDC)	5V	40	400				
SW2-24S09		9V	22	220				
SW2-24S12		12V	16	166				
SW2-24S15		15V	13.6	136				
SW2-24S24		24V	8.4	84				
SW2-24D05		5V	20	200	-5V	20	200	
SW2-24D09		9V	11	110	-9V	11	110	
SW2-24D12		12V	8	83	-12V	8	83	
SW2-24D15		15V	6.8	68	-15V	6.8	68	
SW2-24D24		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.
Single O/P	19.5 x 10.00 x6	
Dual O/P	27.5X12X9.5	

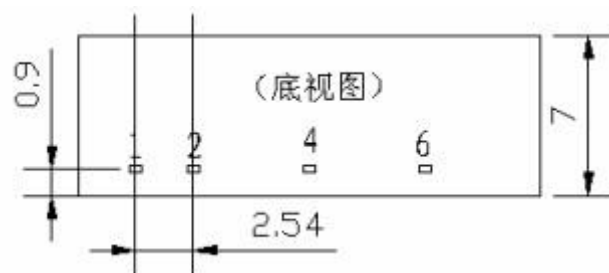
Typical Temperature Curve



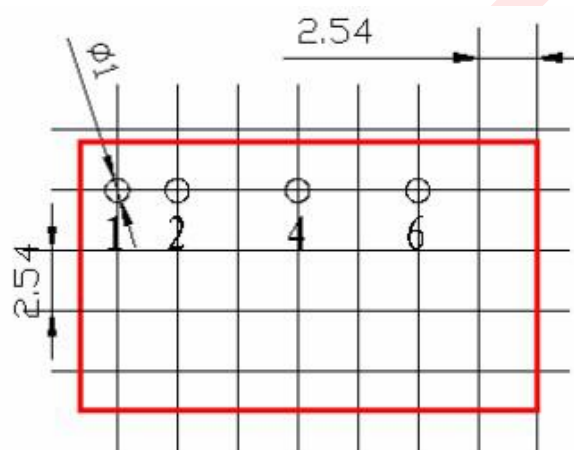
Mechanical Dimension



LATERAL VIEW



BOTTOM VIEW



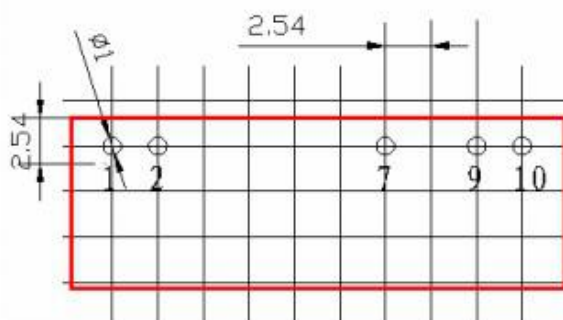
Recommended PCB Layout



LATERAL VIEW



BOTTOM VIEW



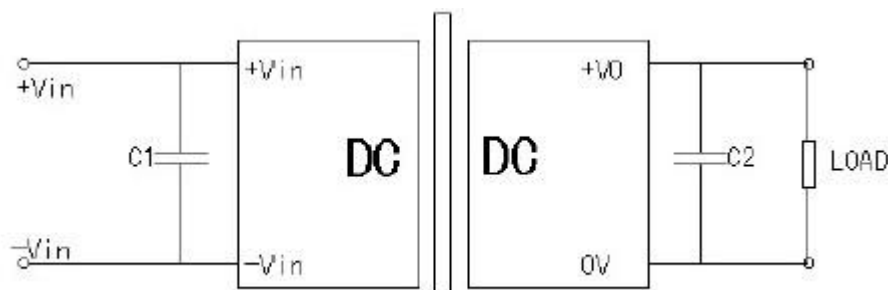
Recommended PCB Layout

UNIT:mm

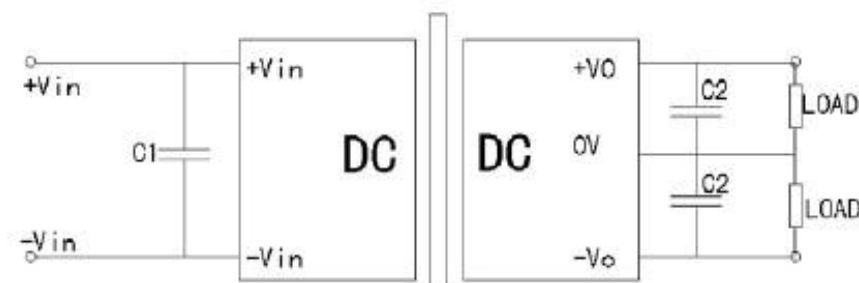
Pin Assignment

PIN	1	2	4	6						
Single output	Vin	GND	0V	+Vo						
	1	2	7	9	10					
Dual output	Vin	GND	+Vo	-Vo	0V					

Recommend Circuit



Single O/P



Dual O/P

C1, C2 select

INPUT VOLTAGE(S)	C1	INPUT VOLTAGE(D)	C2
Single O/P			
5VDC	4.7uF	5VDC	4.7uF
12VDC	2.2 uF	9VDC	4.7 uF
15VDC	1 uF	12VDC	2.2 uF
24VDC	0.47 uF	24VDC	0.47 uF
Dual O/P			
5VDC	4.7uF	±5 VDC	4.7uF
12VDC	2.2uF	±9 VDC	2.2 uF
24VDC	1uF	±12 VDC	1 uF
---	---	±15 VDC	0.47 uF

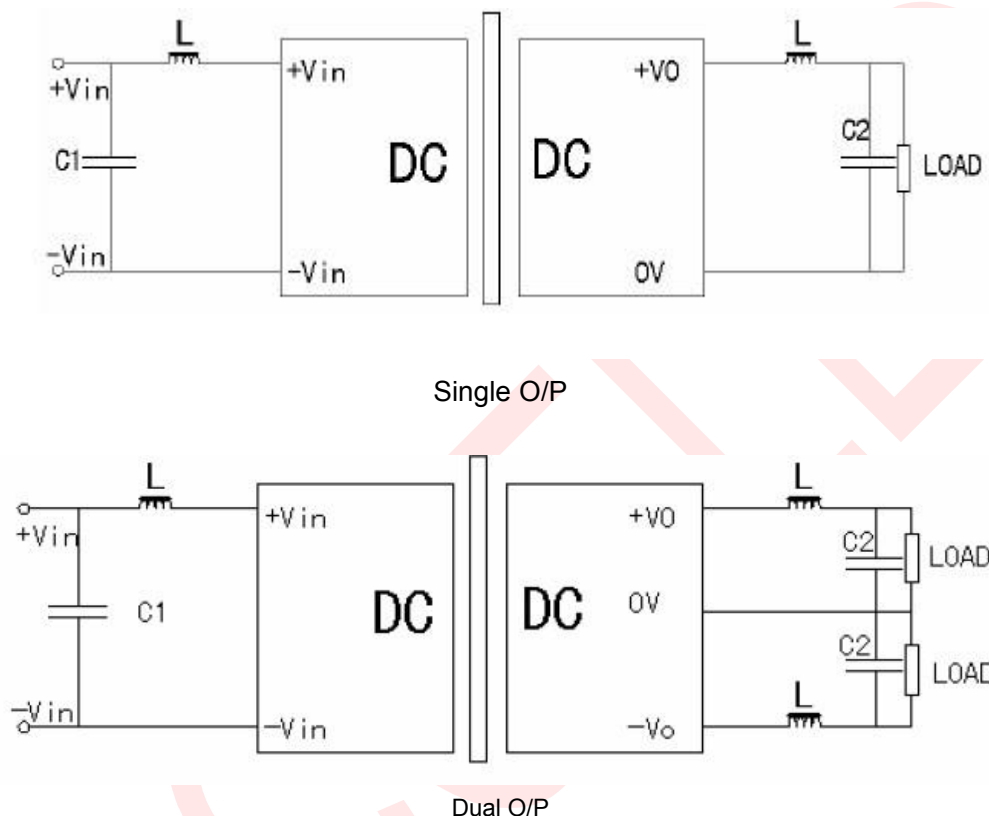
Application Note

(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



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