

Typical Performance

FEATURES

- Fixed Input, isolation, unregulated dual Output,1W
- Isolation voltage: 1000VDC
- DIP package
- Efficiency :up to 80%
- Working temperature -40℃~+85℃
- MTBF≥35x10⁵Hrs
- Industry standard pinout
- Isolation capacitance:90PF
- 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:60Pf(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)	(mA)	(mA)	Voltage (VDC)	(mA)	(mA)	
D050505D-1W	5V(4.5~5.5V)	5/5	100/10					72
D050909D-1W		9/9	56/56					78
D051212D-1W		12/12	42/42					78
D051515D-1W		15/15	33/33					80
D120505D-1W	12V(10.8~13.2V)	5/5	100/10					71
D120909D-1W		9/9	56/56					74
D121212D-1W		12/12	42/42					76
D121515D-1W		15/15	33/33					76

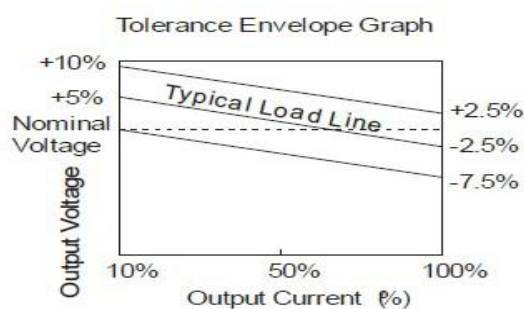
D240505D-1W	24V(21.6~26.4V)	5/5	100/10					72
D240909D-1W		9/9	56/56					78
D241212D-1W		12/12	42/42					78
D241515D-1W		15/15	33/33					80

□ 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.

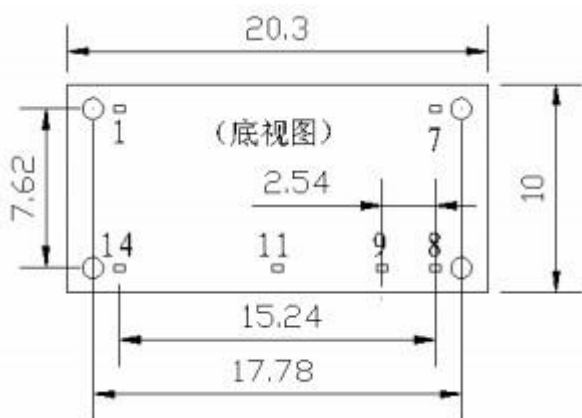
Mechanical Data

Packing Code	L x W x H : mm	Packing No.
D_D-1W	20.3*10*7	

Typical Temperature Curve



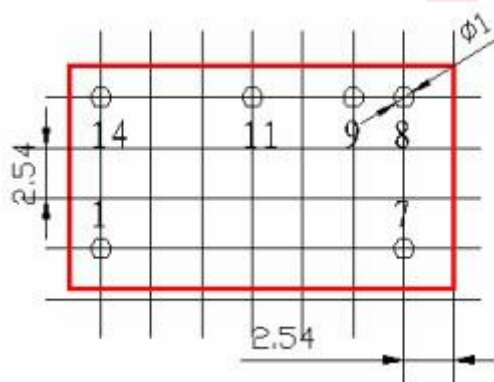
Mechanical Dimension



BOTTOM VIEW



LATERAL VIEW



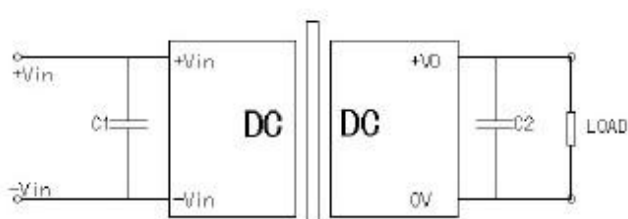
Recommended PCB Layout

UNIT:mm

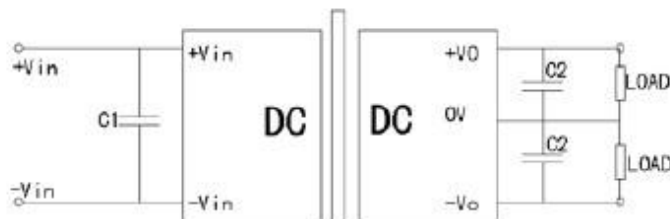
Pin Assignment

PIN	1	7	8	9	10	11	14			
Isolation dual output	GND	NC	+Vo2	0V2	+Vo1	0V1	Vin			

Recommend Circuit



Single O/P



Dual O/P

C1、C2 select

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

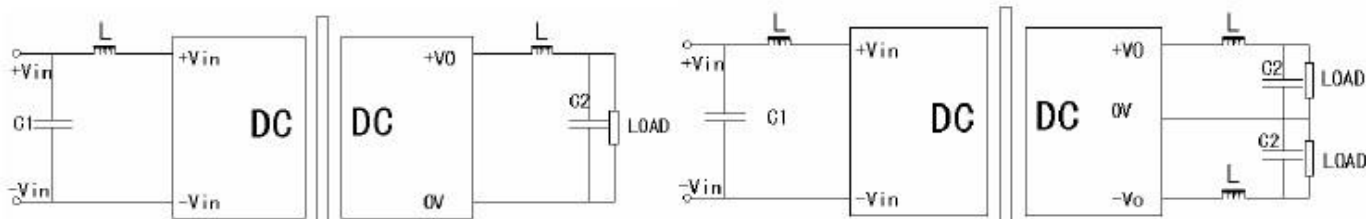
Application Note

(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= $U_2 / (10\% \times 1W)$

(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



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.