

6W DC/DC converter

Typical Performance

- ⊙ 2:1/4:1 Wide Input range
- ⊙ 1500VDC I/O isolation
- ⊙ No heat sink required
- ⊙ Industry standard pinout
- ⊙ Cooling by free air convection
- ⊙ Metal case



- ⊙ Internal SMD construction
- ⊙ Low cost / High reliability
- ⊙ Continue short circuit protection
- ⊙ DIP package

Technology parameter Test condition:General Nominal Line,Tc=25°C , Rated resistant load unless other wise specified

Input Feature	Min	Nom	Max	Note
Input voltage(Vdc)	9	12	18	W 2:1
	18	24	36	W 2:1
	36	48	72	W 2:1
	9	18	36	W 4:1
	18	36	72	W 4:1
Remote ON/OFF				Non

Output Feature

Voltage accuracy	Positive		±1.0%
	Negative		±3.0%
Line regulation	Input voltage from low to high		±0.2%
Load regulation	From 10% to 100% load		±0.5%
Ripple and noise	20MHz Bandwidth		150mVp-p(typ)
Temperature Regulation			±0.02%/°C

General Feature

Efficiency			80% typical
Switching frequency			300KHz
Operating temperature			-40℃ ~ +85℃
Storage temperature			-40℃ ~ +105℃
Max case temperature			25℃
Storage humidity			95%
Isolation resistance			100MΩ
Input-Output Isolation Voltage			1500VDC
Cooling			Nature Convection
Case Material			Copper,nickel plated
MTBF	10X10 ⁵ Hrs		

Product Nomination Method

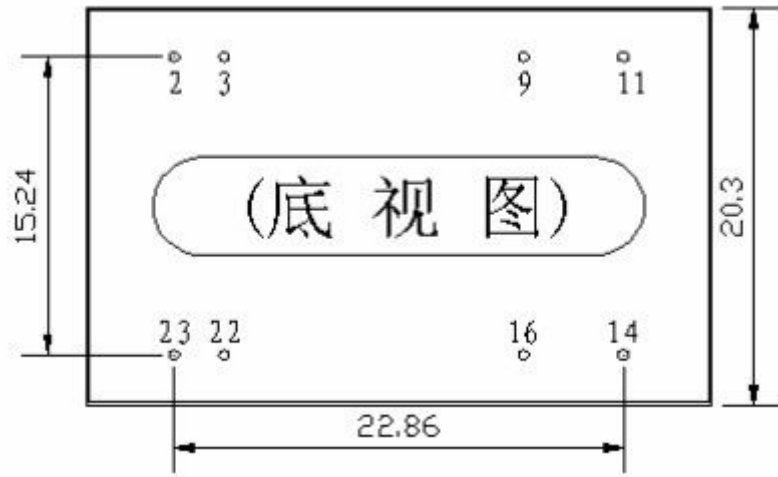
exam ple	L D 5 - 48 S 05 I						
	①	②	③	④	⑤	⑥	⑦
①	L:Wide voltage input: 2: 1				⑥	output voltage	
②	Power adaptation mode: D (DC-DC)				⑦	I: Dual Route output Isolate	
③	Output power(W)					W: Super Wide input voltage	
④	Normal input voltage						
⑤	S=Single route output, D=Dual route output, T=Triple route output, Q=Quadruple output						

Product Program

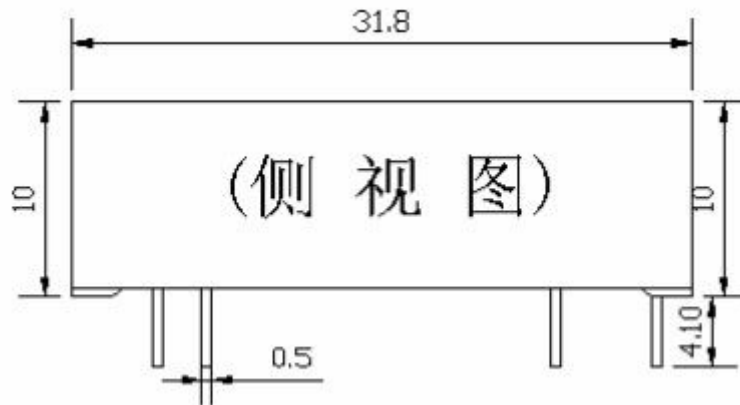
PART #	Input voltage range	Output voltage / current					
		VO1		VO2		VO3	
		V	mA	V	A	V	A
LD6-12S05A	12V(9~18V)	5V	1200mA				
LD6-12S12A		12V	500mA				
LD6-12S15A		15V	400mA				
LD6-12S24A		24V	250mA				
LD6-12D05A		+5V	600mA	-5V	600mA		
LD6-12D12A		+12V	250 mA	-12V	250 mA		
LD6-12D15A		+15V	200 mA	-15V	200 mA		
LD6-12D24A		+24V	125mA	-24V	125mA		
LD6-18S05A	18V(9~36V)	5V	1200mA				
LD6-18S12A		12V	500mA				

LD6-18S15A		15V	400mA				
LD6-18S24A		24V	250mA				
LD6-18D05A		+5V	600mA	-5V	600mA		
LD6-18D12A		+12V	250 mA	-12V	250 mA		
LD6-18D15A		+15V	200 mA	-15V	200 mA		
LD6-18D24A		+24V	125mA	-24V	125mA		
LD6-24S05A	24V(18~36V)	5V	1200mA				
LD6-24S12A		12V	500mA				
LD6-24S15A		15V	400mA				
LD6-24S24A		24V	250mA				
LD6-24D05A		+5V	600mA	-5V	600mA		
LD6-24D12A		+12V	250 mA	-12V	250 mA		
LD6-24D15A		+15V	200 mA	-15V	200 mA		
LD6-24D24A		+24V	125mA	-24V	125mA		
LD6-36S05A	36V(18~72V)	5V	1200mA				
LD6-36S12A		12V	500mA				
LD6-36S15A		15V	400mA				
LD6-36S24A		24V	250mA				
LD6-36D05A		+5V	600mA	-5V	600mA		
LD6-36D12A		+12V	250 mA	-12V	250 mA		
LD6-36D15A		+15V	200 mA	-15V	200 mA		
LD6-36D24A		+24V	125mA	-24V	125mA		
LD6-48S05A	48V(36~72V)	5V	1200mA				
LD6-48S12A		12V	500mA				
LD6-48S15A		15V	400mA				
LD6-48S24A		24V	250mA				
LD6-48D05A		+5V	600mA	-5V	600mA		
LD6-48D12A		+12V	250 mA	-12V	250 mA		
LD6-48D15A		+15V	200 mA	-15V	200 mA		
LD6-48D24A		+24V	125mA	-24V	125mA		

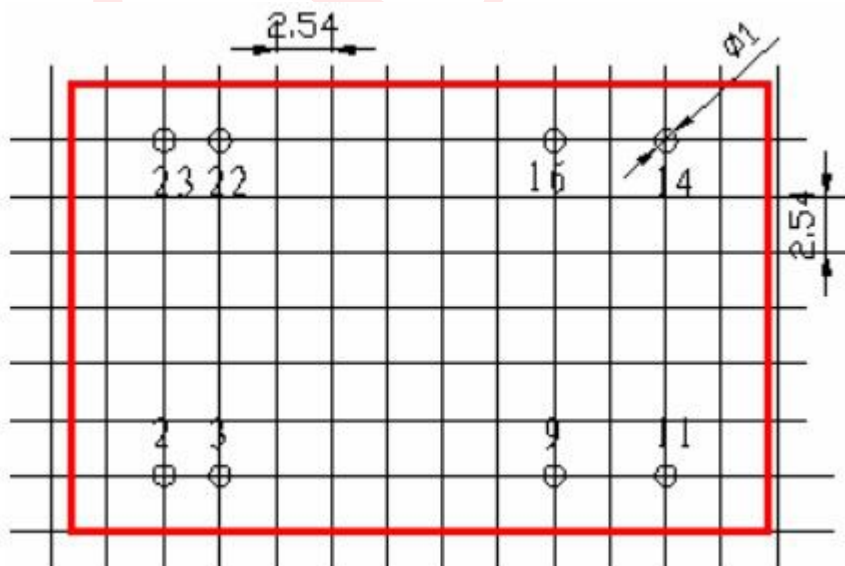
Mechanical Dimensions



BOTTON VIEW

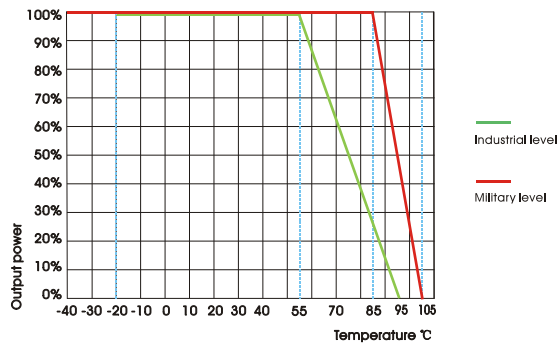


LATERAL VIEW



Unit:mm

Temperature Graph



Mechanical Data

WATT	L x W x H	Packing No.
6W	31.8*20.3*9.5mm	A

Pin Assignment

PIN	2/3	9	10/15	11	14	16	22/23		
Single O/P	GND	-	-	NC	+Vo	0V	Vin		
Dual O/P	GND	0V	-	-Vo	+Vo	0V	Vin		

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