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LD25 系列

25W DC/DC 电源模块



典型性能

- ◆ 外形尺寸: 50.8mm×50.8mm×12.7mm (L×W×H)
- ◆ 宽输入电压范围 (2: 1/4:1 输入电压范围)
- ◆ 多种电压输出, 单、双、叁、肆路输出
- ◆ 长期短路保护, 自动恢复
- ◆ 金属外壳, 六面屏蔽
- ◆ 有遥控和输出 10%调节功能
- ◆ 典型效率: 82%

输入特性 Input	Min	Type	Max	Notes
输入电压范围 Input Voltage Range	9	12	18	Vdc
	9	18	36	Vdc
	18	24	36	Vdc
	18	36	72	Vdc
	36	48	72	Vdc
	72	110	144	Vdc
输出特性 Output	Min	Type	Max	Notes
输出电压精度 Set point Accuracy		±1%		
负载效应 Load Regulation		±0.5%		
源效应 Line Regulation		±1%		
纹波噪声 Ripple and Noise	20MHz 下	Vo*1%		
短路保护 Short-Circuit Protection	长期短路自恢复 Continue Automatic Recovery			
综合特性 General	Min	Type	Max	Notes
隔离电压 Isolation Voltage			1000Vdc	输入与输出 Input-Output
			500Vdc	输入与壳 Input-Case

			500Vdc	输出与壳 Output-Case
开关频率 Switching Frequency		300KHz		
平均故障间隔时间 MTBF		5×10^5 Hrs		Mil HDBK 217F Tc=25°C
工作壳温 Case Temperature	-25°C		85°C	工业级
	-40°C		85°C	军工级
储存温度 Storage Temperature	-45°C		105°C	
相对湿度 Relative Humidity	5%		95%	

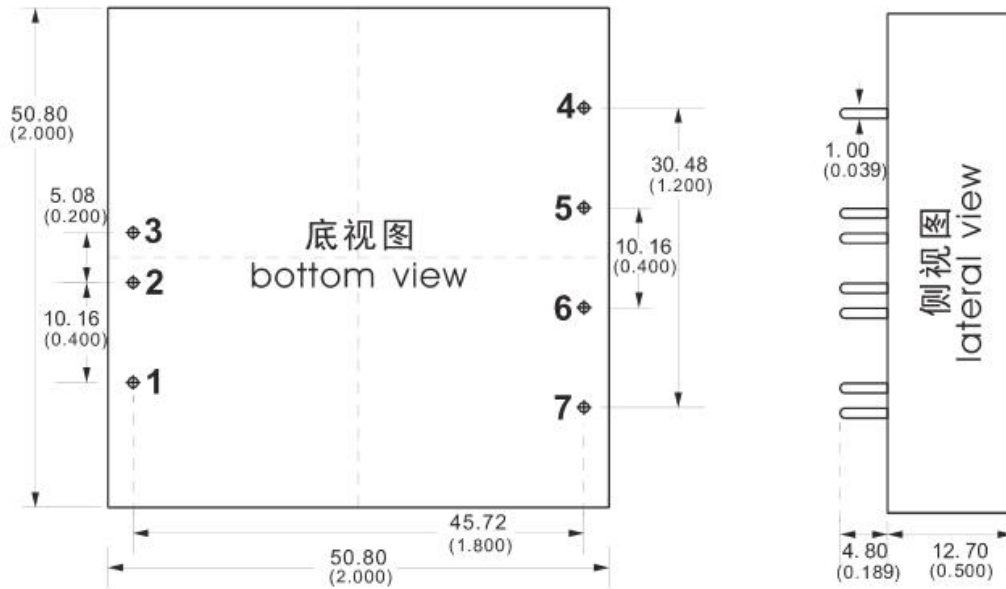
产品列表:

型号	输入电压 范围(V)	标称输出电压/标称输出电流			纹波及噪 声 (mVp-p)	典型效率 (%)
		Vo1(V)/Io1(A)	Vo2(V)/Io2(A)	Vo3(V)		
LD25-12S3V3E	12V (9~18V)	3.3V/5A				
LD25-12S05E		5V/5A				
LD25-12S09E		9V/2.77A				
LD25-12S12E		12V/2.08A				
LD25-12S15E		15V/1.66A				
LD25-12S24E		24V/1.04				
LD25-12D05E		+5V/2.5A	-5V/2.5A			
LD25-12D09E		+9V/1.39A	-9V/1.39A			
LD25-12D12E		+12V/1.04A	-12V/1.04A			
LD25-12D15E		+15V/0.83A	-15V/0.83A			
LD25-12D24E		+24V/0.52A	-24V/0.52A			
LD25-12T5-12E		+5V/3.5A	+12V/0.25A			
LD25-12T5-15E		+5V/3.5A	+15V/0.2A			
LD25-18S3V3E			3.3V/5A			
LD25-18S05E	5V/5A					
LD25-18S09E	9V/2.77A					
LD25-18S12E	12V/2.08A					

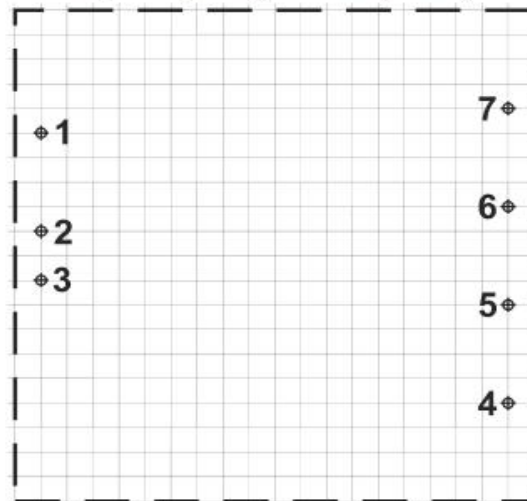
LD25-18S15E	18V (9~36V)	15V/1.66A			
LD25-18S24E		24V/1.04			
LD25-18D05E		+5V/2.5A	-5V/2.5A		
LD25-18D09E		+9V/1.39A	-9V/1.39A		
LD25-18D12E		+12V/1.04A	-12V/1.04A		
LD25-18D15E		+15V/0.83A	-15V/0.83A		
LD25-18D24E		+24V/0.52A	-24V/0.52A		
LD25-18T5-12E		+5V/3.5A	+12V/0.25A		
LD25-18T5-15E		+5V/3.5A	+15V/0.2A		
LD25-24S3V3E		24V (18~36V)	3.3V/5A		
LD25-24S05E	5V/5A				
LD25-24S09E	9V/2.77A				
LD25-24S12E	12V/2.08A				
LD25-24S15E	15V/1.66A				
LD25-24S24E	24V/1.04				
LD25-24D05E	+5V/2.5A		-5V/2.5A		
LD25-24D09E	+9V/1.39A		-9V/1.39A		
LD25-24D12E	+12V/1.04A		-12V/1.04A		
LD25-24D15E	+15V/0.83A		-15V/0.83A		
LD25-24D24E	+24V/0.52A		-24V/0.52A		
LD25-24T5-12E	+5V/3.5A		+12V/0.25A		
LD25-24T5-15E	+5V/3.5A		+15V/0.2A		
LD25-36S3V3E	36V (18~72V)		3.3V/5A		
LD25-36S05E		5V/5A			
LD25-36S09E		9V/2.77A			
LD25-36S12E		12V/2.08A			
LD25-36S15E		15V/1.66A			
LD25-36S24E		24V/1.04			
LD25-36D05E		+5V/2.5A	-5V/2.5A		
LD25-36D09E		+9V/1.39A	-9V/1.39A		
LD25-36D12E		+12V/1.04A	-12V/1.04A		
LD25-36D15E		+15V/0.83A	-15V/0.83A		

LD25-36D24E		+24V/0.52A	-24V/0.52A				
LD25-36T5-12E		+5V/3.5A	+12V/0.25A				
LD25-36T5-15E		+5V/3.5A	+15V/0.2A				
LD25-48S3V3E	48V (36~72V)	3.3V/5A					
LD25-48S05E		5V/5A					
LD25-48S09E		9V/2.77A					
LD25-48S12E		12V/2.08A					
LD25-48S15E		15V/1.66A					
LD25-48S24E		24V/1.04					
LD25-48D05E		+5V/2.5A	-5V/2.5A				
LD25-48D09E		+9V/1.39A	-9V/1.39A				
LD25-48D12E		+12V/1.04A	-12V/1.04A				
LD25-48D15E		+15V/0.83A	-15V/0.83A				
LD25-48D24E		+24V/0.52A	-24V/0.52A				
LD25-48T5-12E		+5V/3.5A	+12V/0.25A				
LD25-48T5-15E		+5V/3.5A	+15V/0.2A				
LD25-110S3V3E		110V (72~144V)	3.3V/5A				
LD25-110S05E			5V/5A				
LD25-110S09E			9V/2.77A				
LD25-110S12E	12V/2.08A						
LD25-110S15E	15V/1.66A						
LD25-110S24E	24V/1.04						
LD25-110D05E	+5V/2.5A		-5V/2.5A				
LD25-110D09E	+9V/1.39A		-9V/1.39A				
LD25-110D12E	+12V/1.04A		-12V/1.04A				
LD25-110D15E	+15V/0.83A		-15V/0.83A				
LD25-110D24E	+24V/0.52A		-24V/0.52A				
LD25-110T5-12E	+5V/3.5A		+12V/0.25A				
LD25-110T5-15E	+5V/3.5A		+15V/0.2A				

外形与管脚的定义:



单位(Unit):mm
 印刷板俯视图(Printed board vertical view)
 栅格间距(Lattice spacing): 2.54mm(0.1inch)



管脚定义

引脚	单路	双路	叁路	肆路
1	REM (遥控端)	REM (遥控端)		
2	-Vin (输入负极)	-Vin (输入负极)		
3	+Vin (输入正极)	+Vin (输入正极)		
4	NP (无引脚)	+Vo(输出正极)		
5	+Vo (输出正极)	COM (输出公共地)		
6	GND (输出地)	-Vo (输出负极)		
7	TRIM (电压微调)	TRIM (电压微调)		

注:

(1) 本手册所有指标的测试方法均依据本公司企业标准。

All indicators in this manual are tested according to the company's enterprise standards.

(2) 除特殊说明外, 本手册的所以指标是在 $T_a=25^{\circ}\text{C}$, 湿度 $<75\%$, 标称输入电压和输出额定负载所测得。输出特性指标为负载在纯阻性条件下, 若非纯阻性负载, 需另行规定。

Except where noted, so the index of this manual is the $T_a = 25^{\circ}\text{C}$, humidity is $< 75\%$, measured by nominal input voltage and output rated load. The output characteristic index is the load in the condition of pure resistance. If the load is not pure resistance, it shall be specified separately.

(3) 若产品工作在复杂环境中, 则不能保证产品性能均符合本手册中所有性能指标。

If the product works in a complex environment, the product performance cannot be guaranteed to meet all the performance indicators in this manual.

(4) 我司可提供非常规电压产品定制, 具体需求可直接联系我司技术人员。

Our company can provide unconventional voltage products customized, specific requirements can be directly contacted with our technical staff.

(5) 本手册的最终解释权归广州弘仁电子科技有限公司所有。

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