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LD12 系列

12W DC/DC 电源模块



典型性能

- ◆ 外形尺寸: 50.8mm×25.4mm×10.16mm (L×W×H)
- ◆ 宽输入电压范围 (2: 1 和 4: 1 输入电压范围)
- ◆ 多种电压输出, 单、双路输出
- ◆ 输出短路保护, 自动恢复
- ◆ 金属外壳, 六面屏蔽
- ◆ 典型效率 80%

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%	

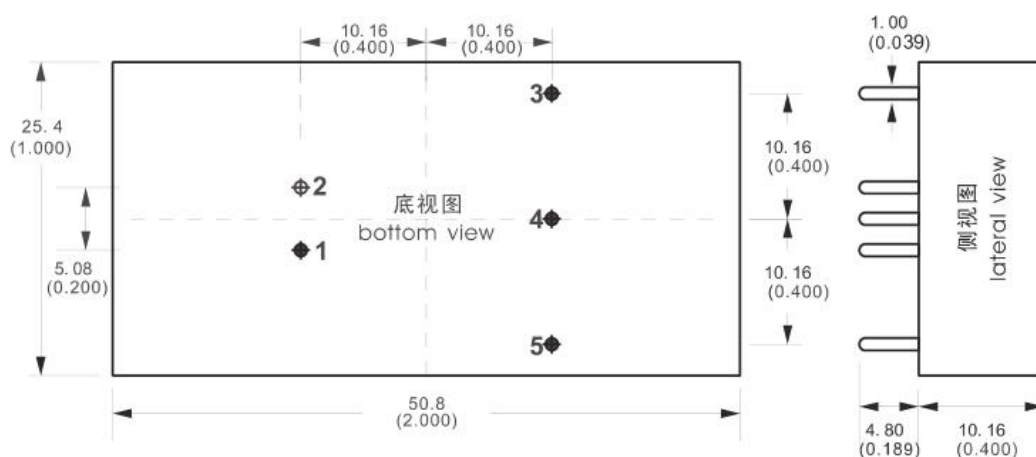
产品列表:

型号	输入电压 范围 (V)	标称输出电压/标称输出电流			最大容性 负载 (uF)	典型效率 (%)
		Vo1 (V)/Io1 (A))	Vo2 (V)/Io2 (A))	Vo3 (V)/Io3 (A))		
LD12-12S05B	12 V (9~18V)	5V/2.4A				
LD12-12S09B		9V/1.33A				
LD12-12S12B		12V/1A				
LD12-12S15B		15V/0.8A				
LD12-12S24B		24V/0.5A				
LD12-12D3V3B		+3.3V/1.2A	-3.3V/1.2A			
LD12-12D05B		+5V/1.2A	-5V/1.2A			
LD12-12D09B		+9V/0.66A	-9V/0.66A			
LD12-12D12B		+12V/0.5A	-12V/0.5A			
LD12-12D15B		+15V/0.4A	-15V/0.4A			
LD12-12D24B		+24V/0.25A	-24V/0.25A			
LD12-18S05B		18V (9~36V)	5V/2.4A			
LD12-18S09B	9V/1.33A					
LD12-18S12B	12V/1A					
LD12-18S15B	15V/0.8A					
LD12-18S24B	24V/0.5A					
LD12-18D3V3B	+3.3V/1.2A		-3.3V/1.2A			
LD12-18D05B	+5V/1.2A		-5V/1.2A			
LD1218□D09B	+9V/0.66A		-9V/0.66A			
LD12-18D12B	+12V/0.5A		-12V/0.5A			
LD12-18D15B	+15V/0.4A		-15V/0.4A			
LD12-18D24B	+24V/0.25A		-24V/0.25A			

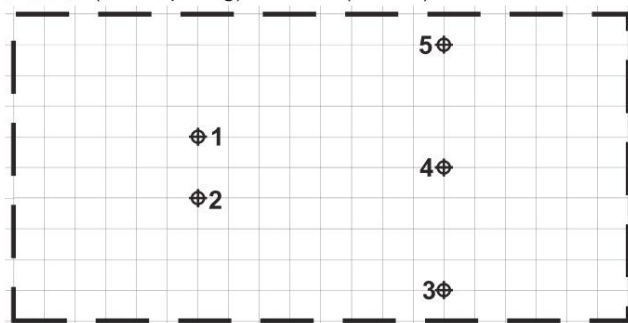
LD12-24S05B	24V (18~36V)	5V/2.4A			
LD12-24S09B		9V/1.33A			
LD12-24S12B		12V/1A			
LD12-24S15B		15V/0.8A			
LD12-24S24B		24V/0.5A			
LD12-24D3V3B		+3.3V/1.2A	-3.3V/1.2A		
LD12-24D05B		+5V/1.2A	-5V/1.2A		
LD12-24D09B		+9V/0.66A	-9V/0.66A		
LD12-24D12B		+12V/0.5A	-12V/0.5A		
LD12-24D15B		+15V/0.4A	-15V/0.4A		
LD12-24D24B		+24V/0.25A	-24V/0.25A		
LD12-36S05B		36V (18~72V)	5V/2.4A		
LD12-36S09B	9V/1.33A				
LD12-36S12B	12V/1A				
LD12-36S15B	15V/0.8A				
LD12-36S24B	24V/0.5A				
LD12-36D3V3B	+3.3V/1.2A		-3.3V/1.2A		
LD12-36D05B	+5V/1.2A		-5V/1.2A		
LD12-36D09B	+9V/0.66A		-9V/0.66A		
LD12-36D12B	+12V/0.5A		-12V/0.5A		
LD12-36D15B	+15V/0.4A		-15V/0.4A		
LD12-36D24B	+24V/0.25A		-24V/0.25A		
LD12-48S05B	48V (36~72V)		5V/2.4A		
LD12-48S09B		9V/1.33A			
LD12-48S12B		12V/1A			
LD12-48S15B		15V/0.8A			
LD12-48S24B		24V/0.5A			
LD12-48D3V3B		+3.3V/1.2A	-3.3V/1.2A		
LD12-48D05B		+5V/1.2A	-5V/1.2A		
LD12-48D09B		+9V/0.66A	-9V/0.66A		
LD12-48D12B		+12V/0.5A	-12V/0.5A		
LD12-48D15B		+15V/0.4A	-15V/0.4A		
LD12-48D24B		+24V/0.25A	-24V/0.25A		
LD12-110S05B		110V (72~144V)	5V/2.4A		
LD12-110S09B	9V/1.33A				
LD12-110S12B	12V/1A				
LD12-110S15B	15V/0.8A				
LD12-110S24B	24V/0.5A				
LD12-110D3V3B	+3.3V/1.2A		-3.3V/1.2A		
LD12-110D05B	+5V/1.2A		-5V/1.2A		

LD12-110D09B	+9V/0.66A	-9V/0.66A			
LD12-110D12B	+12V/0.5A	-12V/0.5A			
LD12-110D15B	+15V/0.4A	-15V/0.4A			
LD12-110D24B	+24V/0.25A	-24V/0.25A			

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(Latic spacing): 2.54mm(0.1inch)



管脚定义

引脚	单路	双路
1	-Vin (输入负极)	-Vin (输入负极)
2	+Vin (输入正极)	+Vin (输入正极)

3	+Vout (输出正)	+Vout (输出正)
4	NP (无引脚)	COM (输出公共地)
5	GND (输出地)	-Vout (输出负)

*注意：电源模块的各管脚定义如与选型手册不符，应以实物标签上的标注为准。

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 Ta=25℃，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 Ta = 25 °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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