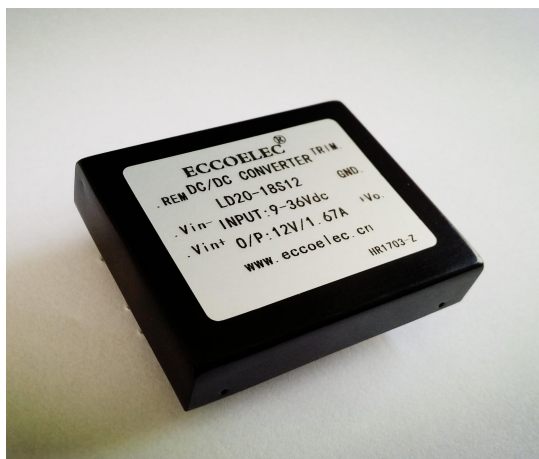


电话: 020-83238282 传真: 020-37638279 官网: www.eccoelec.cn

LD20 系列

20W DC/DC 电源模块



典型性能

- ◆ 外形尺寸: 50.8mm×40.6mm×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

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%	

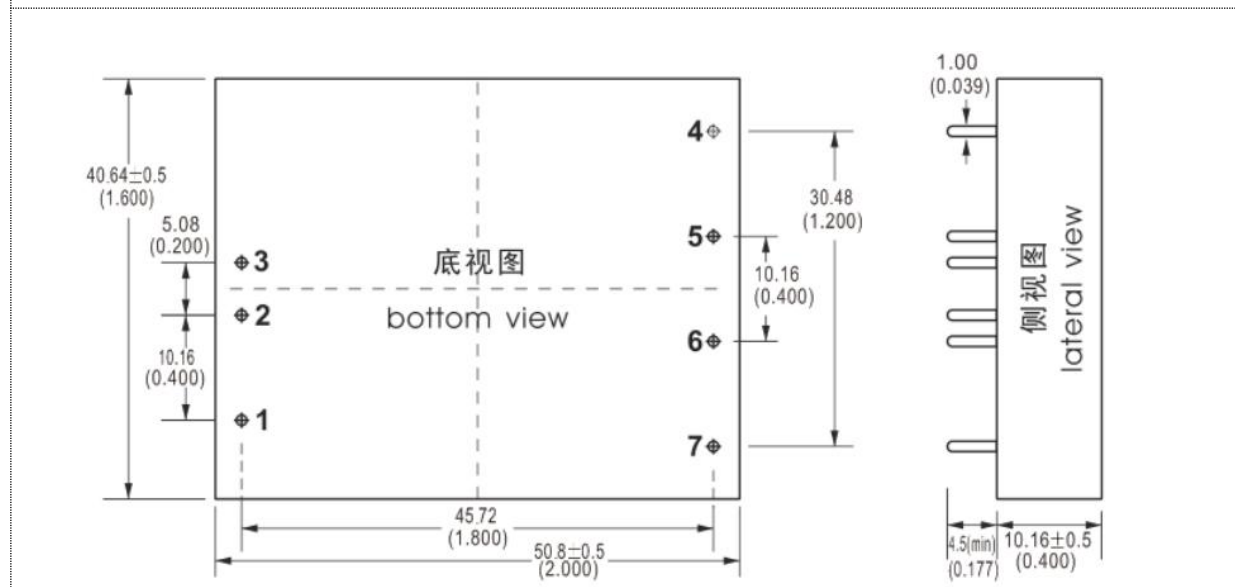
产品列表:

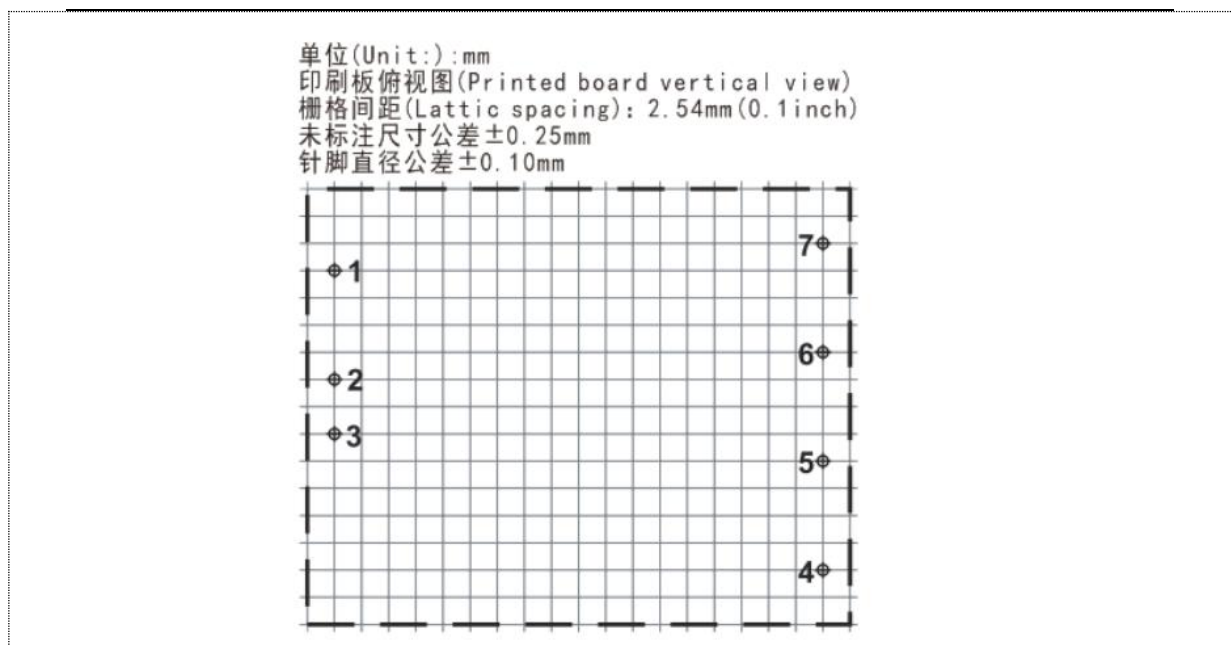
型号	输入电压 范围 (V)	标称输出电压/标称输出电流			纹波及噪声 (mVp-p)	典型效率 (%)
		Vo1 (V)/Io1 (A))	Vo2 (V)/Io2 (A))	Vo3 (V)/Io3 (A))		
LD20-12S3V3	12V (9~18V)	3.3V/4A				
LD20-12S05		5V/4A				
LD20-12S09		9V/2.22A				
LD20-12S12		12V/1.66A				
LD20-12S15		15V/1.33A				
LD20-12S24		24V/0.83A				
LD20-12S48		48V/0.41A				
LD20-12D3V3		+3.3V/2A	-3.3V/2A			
LD20-12D05		+5V/2A	-5V/2A			
LD20-12D09		+9V/1.11A	-9V/1.11A			
LD20-12D12		+12V/0.83A	-12V/0.83A			
LD20-12D15		+15V/0.66A	-15V/0.66A			
LD20-12D24		+24V/0.41A	-24V/0.41A			
LD20-18S3V3		18V (9~36V)	3.3V/4A			
LD20-18S05	5V/4A					
LD20-18S09	9V/2.22A					
LD20-18S12	12V/1.66A					
LD20-18S15	15V/1.33A					
LD20-18S24	24V/0.83A					
LD20-18S48	48V/0.41A					

LD20-18D3V3		+3.3V/2A	-3.3V/2A				
LD20-18D05		+5V/2A	-5V/2A				
LD20-18D09		+9V/1.11A	-9V/1.11A				
LD20-18D12		+12V/0.83A	-12V/0.83A				
LD20-18D15		+15V/0.66A	-15V/0.66A				
LD20-18D24		+24V/0.41A	-24V/0.41A				
LD20-24S3V3	24V (18~36V)	3.3V/4A					
LD20-24S05		5V/4A					
LD20-24S09		9V/2.22A					
LD20-24S12		12V/1.66A					
LD20-24S15		15V/1.33A					
LD20-24S24		24V/0.83A					
LD20-24D3V3		+3.3V/2A	-3.3V/2A				
LD20-24D05		+5V/2A	-5V/2A				
LD20-24D09		+9V/1.11A	-9V/1.11A				
LD20-24D12		+12V/0.83A	-12V/0.83A				
LD20-24D15		+15V/0.66A	-15V/0.66A				
LD20-24D24		+24V/0.41A	-24V/0.41A				
LD20-36S3V3		36V (18~72V)	3.3V/4A				
LD20-36S05			5V/4A				
LD20-36S09	9V/2.22A						
LD20-36S12	12V/1.66A						
LD20-36S15	15V/1.33A						
LD20-36S24	24V/0.83A						
LD20-36S48	48V/0.41A						
LD20-36D3V3	+3.3V/2A		-3.3V/2A				
LD20-36D05	+5V/2A		-5V/2A				
LD20-36D09	+9V/1.11A		-9V/1.11A				
LD20-36D12	+12V/0.83A		-12V/0.83A				
LD20-36D15	+15V/0.66A		-15V/0.66A				
LD20-36D24	+24V/0.41A		-24V/0.41A				
LD20-48S3V3	48V (36~72V)		3.3V/4A				
LD20-48S05		5V/4A					
LD20-48S09		9V/2.22A					
LD20-48S12		12V/1.66A					
LD20-48S15		15V/1.33A					
LD20-48S24		24V/0.83A					
LD20-48S48		48V/0.41A					
LD20-48D3V3		+3.3V/2A	-3.3V/2A				

LD20-48D05	110V (72~144V)	+5V/2A	-5V/2A			
LD20-48D09		+9V/1.11A	-9V/1.11A			
LD20-48D12		+12V/0.83A	-12V/0.83A			
LD20-48D15		+15V/0.66A	-15V/0.66A			
LD20-48D24		+24V/0.41A	-24V/0.41A			
LD20-110S3V3		3.3V/4A				
LD20-110S05		5V/4A				
LD20-110S09		9V/2.22A				
LD20-110S12		12V/1.66A				
LD20-110S15		15V/1.33A				
LD20-110S24		24V/0.83A				
LD20-110S48		48V/0.41A				
LD20-110D3V3		+3.3V/2A	-3.3V/2A			
LD20-110D05		+5V/2A	-5V/2A			
LD20-110D09		+9V/1.11A	-9V/1.11A			
LD20-110D12		+12V/0.83A	-12V/0.83A			
LD20-110D15		+15V/0.66A	-15V/0.66A			
LD20-110D24		+24V/0.41A	-24V/0.41A			

外形与管脚的定义:





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)		

使用注意事项:

模块在输入极性接反的状态下, 会造成不可逆的损坏。

模块长期工作在过载的状态下, 会造成不可逆的损坏。

模块在超出输入电压范围最大值的状态下工作, 会造成不可逆的损坏。

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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