

LH05-13BXX 系列

----- 标准封装 AC-DC 模块电源 5W



产品特性

- 宽电压输入范围 85~305VAC (100~430VDC)
- 工作温度 -40℃~+85℃
- 保护功能齐全 (短路保护自恢复等)
- 高效率、高可靠性
- 小体积，塑壳阻燃封装
- 工业级产品技术设计

应用范围

无线网络、电信/数据通信、电力系统、工业控制系统、测量仪器仪表、智能化领域等电源系统。适合于需要实现输入范围波动大，需要电源隔离，布板空间小等设计，并实现产品功能模块化，提高产品可靠性。

产品型号 Product Model

| 型号 Model   | 输出电压<br>Output Voltage (Vo) | 输出电流 Io<br>Output Current (Io) | 效率 (TYP) |
|------------|-----------------------------|--------------------------------|----------|
| LH05-13B05 | 5V                          | 1000mA                         | 75%      |
| LH05-13B12 | 12V                         | 420mA                          | 80%      |
| LH05-13B15 | 15V                         | 333mA                          | 81%      |
| LH05-13B24 | 24V                         | 210mA                          | 82%      |

\*如有其它规格型号需求，可直接联系我司。For other specifications or models, please contact us directly.

输入特性 Input Characteristics

|                                       |                        |                    |
|---------------------------------------|------------------------|--------------------|
| 输入电压范围 Input Voltage Range            | 85~305VAC (100~430VDC) |                    |
| 输入频率 Input Frequency                  | 47~63Hz                |                    |
| 输入电流 Input Current                    | 65mA (TYP) @115VAc     | 45mA (TYP)@ 230VAc |
| 外接保险丝 (推荐值) Recommended External Fuse | 1A/300V 慢断             |                    |

输出特性 Output Characteristics

|                                  |             |
|----------------------------------|-------------|
| 输出电压稳压精度 Output Voltage Accuracy | ±2%         |
| 源效应 Line Regulation              | ±0.5% (typ) |

|                                                          |                                                   |
|----------------------------------------------------------|---------------------------------------------------|
| 负载调整率 Load Regulation (10%~100%)                         | ±1% (typ)                                         |
| 最小负载 Minimum Load                                        | 10%                                               |
| 输出纹波+噪声 (峰-峰值)<br>Output Ripple and Noise (Peak-to-Peak) | 100mV (typ) (20MHz Bandwidth)                     |
| 短路保护 Short-Circuit Protection                            | 可长期短路, 自恢复 Sustained Short-Circuit, Auto-Recovery |
| 输出过压保护 Output Over - Voltage Protection                  | ≥1.1 倍                                            |

#### 一般特性 General Characteristics

|                                     |                          |                             |
|-------------------------------------|--------------------------|-----------------------------|
| 温度特性<br>Temperature Characteristics | 工作温度 Op. Temp.           | -40°C~+85°C                 |
|                                     | 功率降额 Power Derating      | 3.75% / °C ,                |
|                                     | 存储温度 Storage Temperature | -40°C~+90°C                 |
|                                     | 外壳温度 Case Temp.          | +90°C max                   |
| 掉电时间 Power-Off Delay                |                          | 40ms (typ) / at Vin: 320Vdc |
| 湿度 Humidity                         |                          | 85%RH (max)                 |
| 温漂 Temperature Drift                |                          | 0.02%/°C                    |
| 开关频率 Switching Frequency            |                          | 65kHz (typ)                 |
| 隔离电压 Isolation Voltage              | 输入-输出 Input-Output       | 4000Vac/1Min                |
| 漏电流 Leakage Current                 |                          | <5mA RMS typ. 230VAC/50Hz   |
| *电磁兼容静电放电 EMC-ESD                   | IEC/EN 61000-4-2 level 3 | 6kV/8kV                     |
| *射频辐射抗扰 RFI                         | IEC/EN 61000-4-3         |                             |
| *电快速瞬变脉冲群 EFT/B                     | IEC/EN 61000-4-4 level 3 | 2 kV                        |
| *浪涌 Surge                           | IEC/EN 61000-4-5 level 3 | 1kV/2kV                     |
| *传导/辐射 Conduction / Radiation       |                          | EN55022, level B            |
| 安全等级 Safety Class                   |                          | CLASS II                    |
| 外壳等级 Enclosure Class                |                          | 阻燃塑料 UL94V-0                |
| 安装 Mounting Method                  |                          | PCB                         |
| MTBF                                |                          | >200,000h @25°C             |

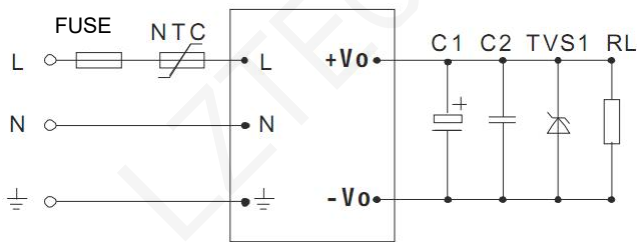
注：1. 标注\*测试项目，需增加外围 EMC 推荐电路；

For test items marked with an asterisk (\*), the external EMC recommended circuit shall be added during testing.

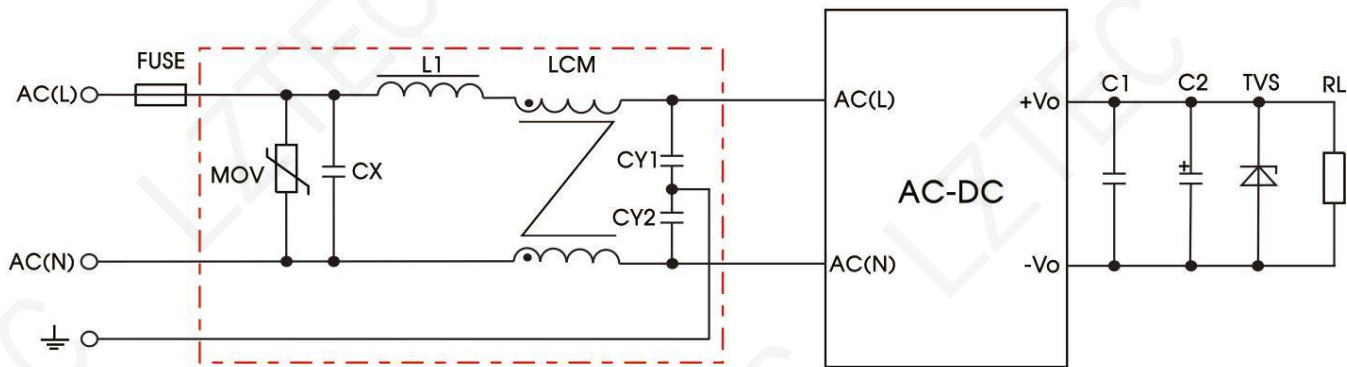
2. 以上所列数据除特别说明外，都是在 TA=25°C, 湿度<75%的条件下测得。

Unless otherwise specified, all data listed above are measured under the conditions of ambient temperature (T/A) = 25°C and relative humidity < 75%.

典型应用 Typical Applications



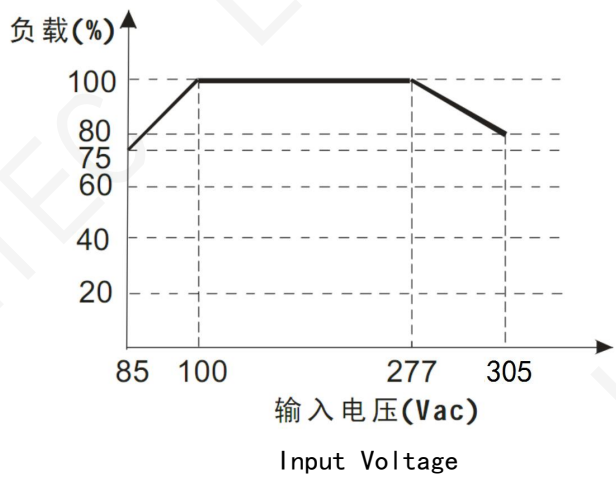
EMC 推荐电路



| 器件 Component | 推荐值 Recommended Value |
|--------------|-----------------------|
| MOV          | 14D471                |
| CY1、CY2      | 1000pF/400VAC         |
| CX           | 0.1uF/275VAC          |
| LCM          | >10mH                 |
| L1           | 4.7uH/2A              |
| FUSE         | 1A/300V，慢断            |

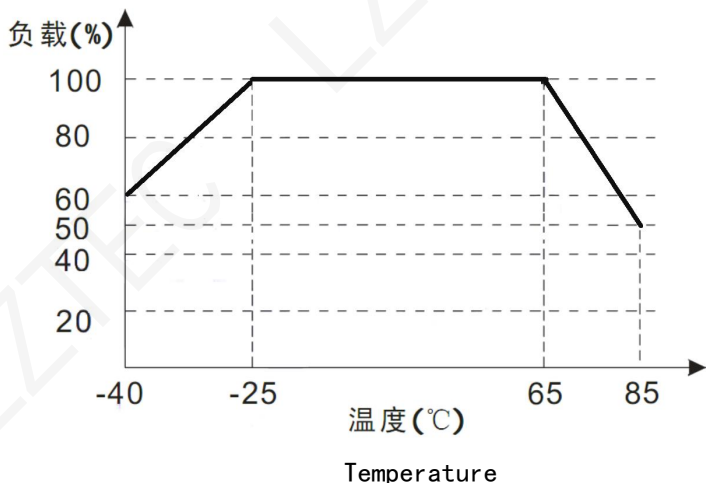
输入电压与负载关系图

Input Voltage vs. Load Correlation

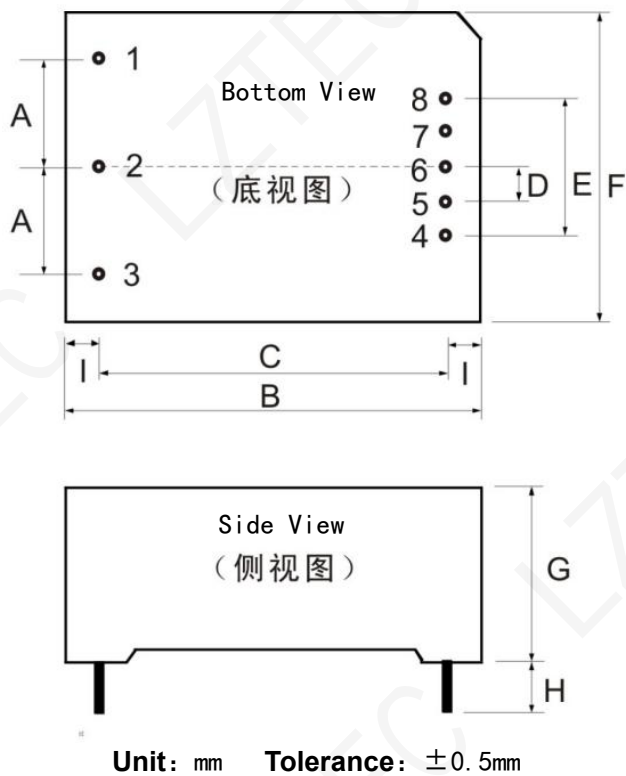


温度与负载关系图

Temperature vs. Load Correlation



外观和尺寸 Mechanical Specifications



尺寸说明 Dimensions Note:

| Mark       | A    | B    | C    | D | E  | F  | G    | H |
|------------|------|------|------|---|----|----|------|---|
| Dimensions | 12.5 | 48.5 | 40.5 | 4 | 16 | 36 | 20.5 | 4 |

引脚定义 Pin Definition:

| Pin        | 1     | 2     | 3  | 4   | 5  | 6  | 7  | 8   |
|------------|-------|-------|----|-----|----|----|----|-----|
| Definition | AC(L) | AC(N) | NC | -Vo | NP | NP | NP | +Vo |

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