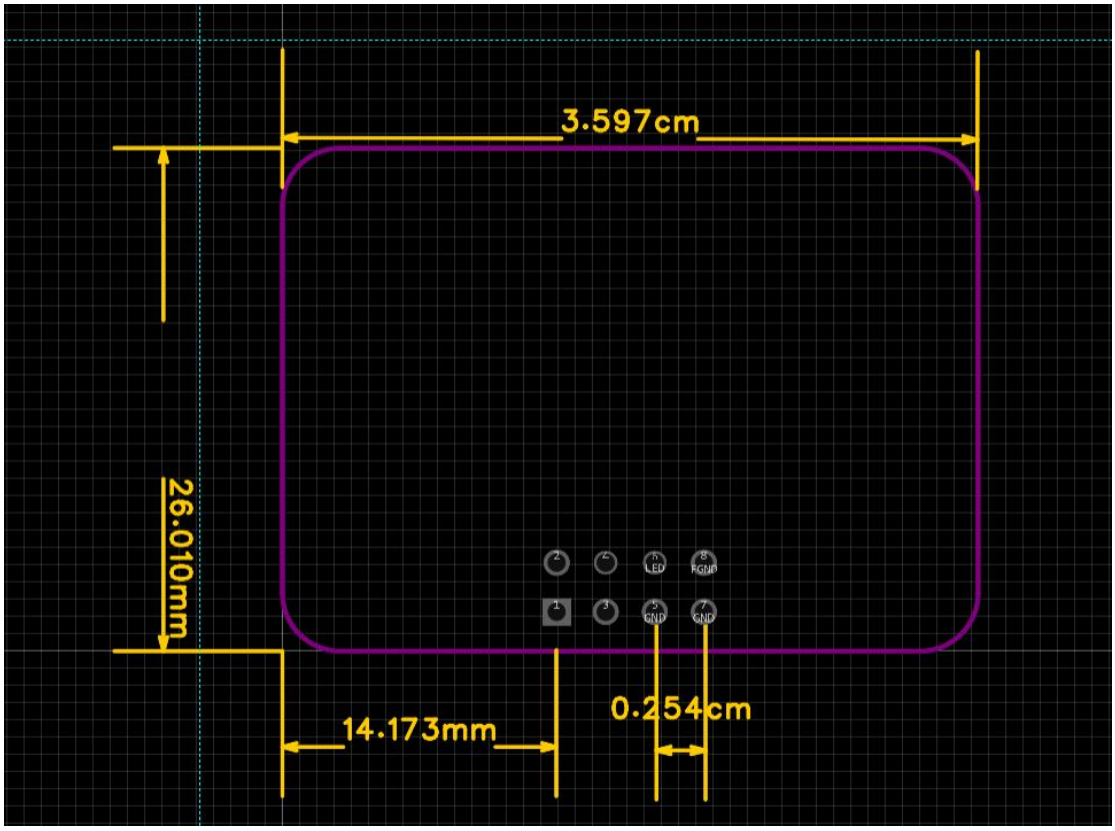
The size

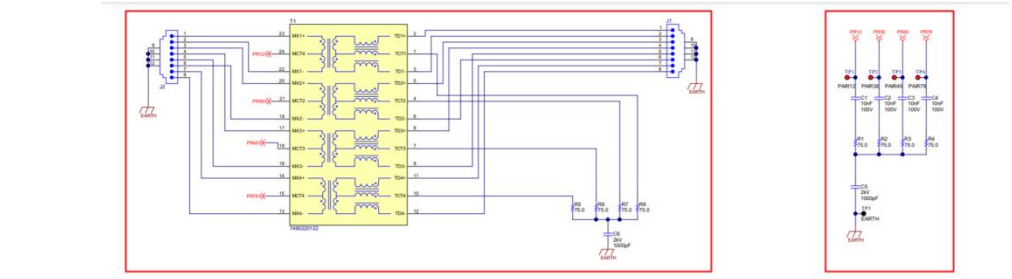


The pins definition



Reference design

1、 网口与网络变压器之间需要严格按照差分信号走线。



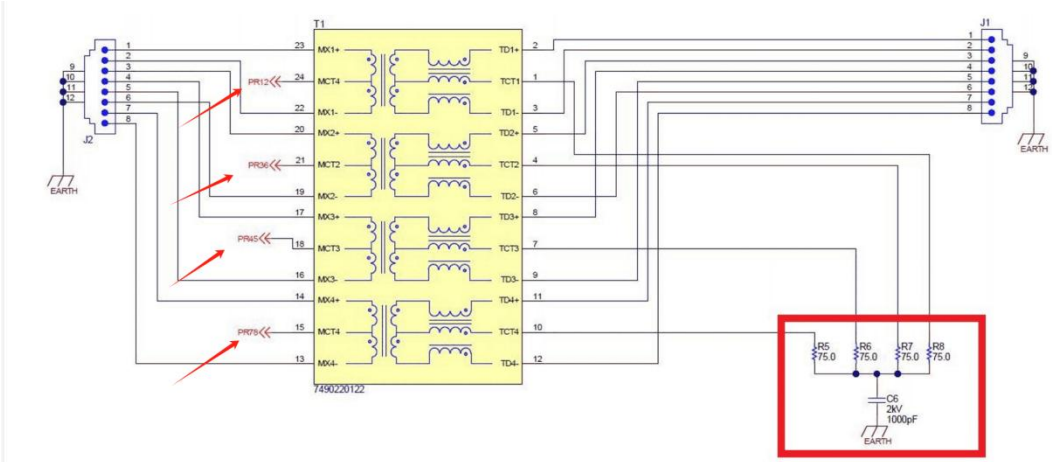


图 **2-3.** 输入变压器数据线端接

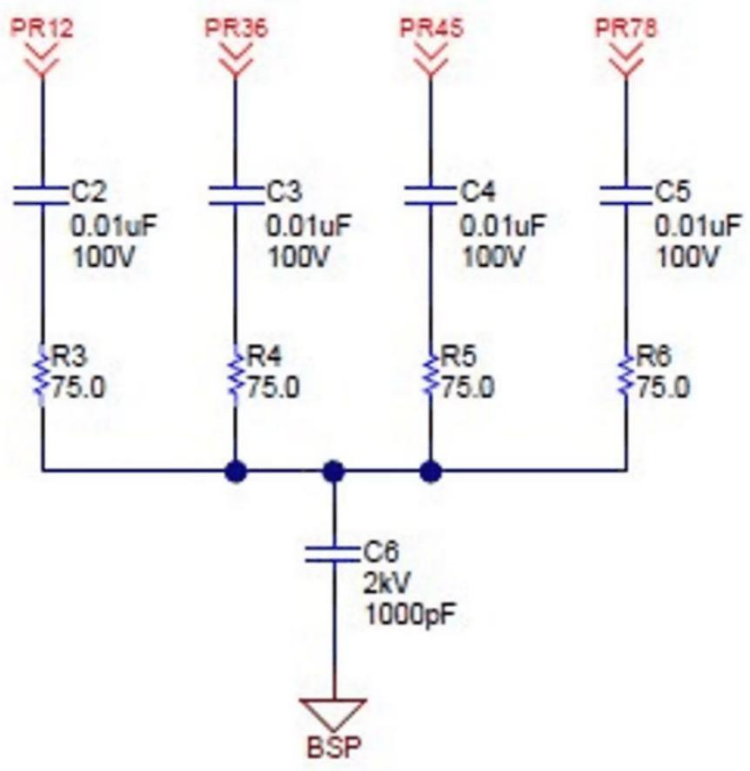


图 2-2. Bob-Smith 端接

2、 T1 需要选择支持 POE++的 10G 的网络变压器。

3、 网口与网络变压器之间需要严格按照差分信号走线。

4、 J2 是 PSE 输出端口，J1 是网络输入端口

5、 PR12，PR45 接 **VMAIN-54V**；PR36 接 **PSE1-A**；PR78 接 **PSE1-B**

6、 Bobsmith 电路需要保留，EARTH 对接 PSE 模块的 **FGND**

7、 电源主板需要 2 路输出，54V-56V 与 5V-12V；因为 PSE 模块支持 IEEE802.3bt 协议，最大支持

class8，建议 54-56V 功率大于 90W。

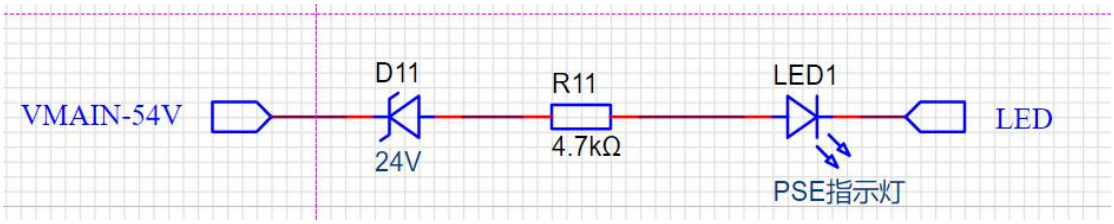
8、 电源主板 54V-56V 对接 PSE 模块的 **VMAIN-54V**

电源主板 5V-12V 对接 PSE 模块的 **5-12V** 输入

电源主板 DC 地 对接 PSE 模块的 **GND**

电源主板输入 AC 的 PE 地 对接 PSE 模块的 **FGND**

电源主板 54-56V 串 24V 稳压管串 4.7K 电阻串 LED 灯 对接 PSE 模块的 **LED**



当 PSE 对外供电时，LED1 点亮

Reference design Translation

1. T1 needs to select a 10G network transformer that supports POE++

2. The RJ45 and the Network filter must be layout in strict accordance with the differential

signal

3. J2 is the PSE output port and J1 is the network input port

4. PR12，PR45 connect to **VMAIN-54V** PR36 connect to **PSE1-A**；PR78 connect to **PSE1-B**

5. Bobsmith circuit needs to be retained, EARTH connects to the FGND of PSE module

6. power motherboard needs 2 port output, 54V-56V and 5V-12V; Because the PSE module supports IEEE802.3bt and class8. It is recommended that the power of the PSE module be 54-56V and bigger than 90W

7. Power board 54V-56V connnect to PSE module **VMAIN-54V**

Power board 5V-12V connect to PSE module **5-12V** input

Power board DC GND connect to PSE module GND

Power board input AC''s PE GND connect to PSE FGND

Power board 54-56V connect to 24V Voltage regulator tube then connect to 4.7K resistance then

connect to LED then to PSE module’s LED

When PSE supply power ourisde .the LED1 Light up

