

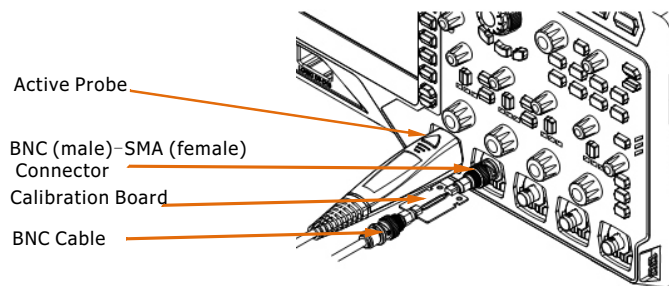
## Calibration Procedures

Follow the procedures below to calibrate the RP7150 active probe using this kit (for the connection of each component, refer to the figure below):

1. Connect one connector to the calibration board and the female BNC of the cable respectively and then connect the other connector to the other part of the calibration board (called **part 1**).

2. Connect the RP7150 active probe to the analog channel (CH1 to CH4 of the oscilloscope, illustrations here are based on CH1).

3. Open the probe calibration control menu (front panel operation: **CH1**→**Probe**→**Probe-Cal**). At this point, calibration prompt message is displayed in the user interface of the oscilloscope. Follow the prompt message to connect **part 1** to the oscilloscope. Generally, connect the BNC (male) of the connector to the corresponding analog channel and the male BNC of the cable to the [**Trig Out/Calibration**] port at the rear panel of the oscilloscope.



## Calibration Procedures

4. Adjust the spacing between the probe tips so as to connect the positive probe tip to the middle signal line on the calibration board and the negative probe tip to the both sides of the middle signal line.

Note: it is recommended to place the probe tips at the middle of the calibration board.

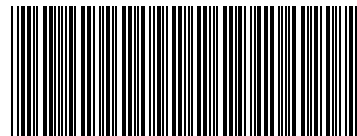
5. Press **Start** and the oscilloscope starts to calibrate the probe. The calibration will last for about 40 to 50 seconds. When probe calibration finished, "Probe calibration finished!" or "Probe calibration failure!" is displayed in the user interface of the oscilloscope.

Note: to ensure the calibration precision, the probe tips must be firmly connected to the calibration board during the calibration.

## Contact Us

If you have any problem or requirement when using our products, please contact RIGOL Technologies, Inc. or your local distributors, or visit: [www.rigol.com](http://www.rigol.com).

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服务与支持热线：800 810 0002  
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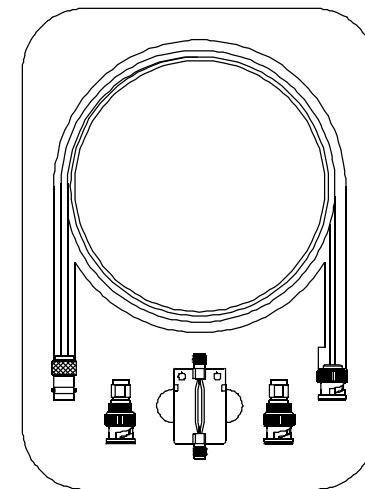
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Nov. 2011

# RIGOL®

## RIGOL

### 使用说明书

### User's Guide



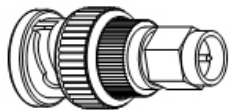
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## PCK100 有源差分探头校准套件

### PCK100 Active Differential Probe Calibration Kit

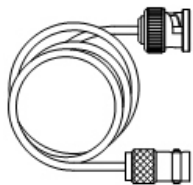
## 附件说明

PCK100有源差分探头校准套件用于校准RP7150有源探头。以下是该套件的各个组成部分。



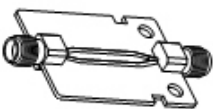
### BNC-SMA连接器(2个)

BNC(公头)-SMA(母头)连接器, 主要用于校准板与示波器、校准板与BNC连接线的连接



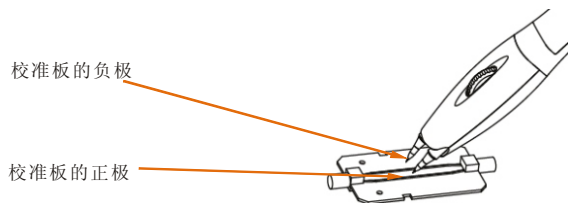
### BNC连接线

BNC(公头)-BNC(母头)连接线(0.8米), 公头和母头分别用于连接示波器后面板标识[Trig Out/Calibration]的BNC接口和校准板



### 校准板

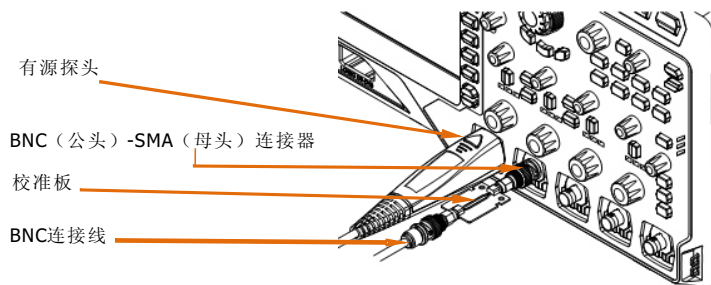
进行校准操作时, 需要将正极探针连接至校准板的正极(校准板的中间信号线上), 负极探针连接至校准板的负极(校准板中间信号线两侧的针孔), 探头前端如下图所示进行放置



## 校准步骤

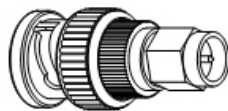
使用该套件校准RP7150有源探头的步骤如下(其中各个部件的连接部分请参考下图):

1. 使用1个连接器分别连接校准板和连接线的BNC(母头), 然后将另一个连接器连接至校准板的另一端(称作部件**1**)。
2. 连接RP7150有源探头至示波器的模拟通道(CH1-CH4, 本文以CH1为例进行说明)。
3. 打开示波器的探头校准控制菜单(前面板操作:CH1->探头->探头校准)此时示波器的用户界面会弹出校准提示信息, 请按照提示信息将部件**1**连接至示波器, 通常情况下, 将连接器的BNC(公头)连接至相应的模拟通道, 将连接线的BNC(公头)连接至后面板[Trig Out/Calibration]端口。
4. 调节探头尖的间距, 将正极探针连接至校准板的中间信号线上, 将负极探针连接至信号线的两侧。注意: 此处探头尖最好连接至校准板的中心附近。
5. 按“开始”软键示波器开始对探头进行校准, 探头校准的时间大约40~50秒, 探头校准完成时示波器会根据校准结果弹出“探头校准完成”或“探头校准失败”提示信息。注意: 以免影响校准精度, 在校准过程中, 探针尖必须始终与校准板紧密相连。



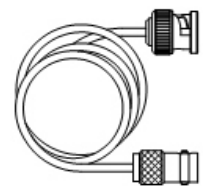
## Accessories

PCK100 active differential probe calibration kit is designed for RP7150 active probe calibration. The components of this kit are as follows.



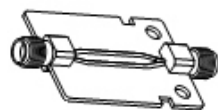
### BNC-SMA Connector (2)

BNC (male)-SMA (female) connector; mainly used to connect the calibration board with the oscilloscope and BNC cable.



### BNC Cable

BNC (male)-BNC (female) cable (0.8 m); connect the male BNC and female BNC to the [Trig Out/Calibration] connector at the rear panel of the oscilloscope and the calibration board respectively.



### Calibration Board

During the calibration, connect the positive probe tip to the positive pole (the middle signal line on the calibration board) of the calibration board and the negative probe tip to the negative pole (the tip holes at both sides of the middle signal line) of the calibration board. Place the probe head as shown in the figure below.

