

Troubleshooting

1. Probe tip is broken off:

Reasons:

i. The probe falls off or other physical impact breaks off the probe tip.

ii. The probe is connected to hot test point, which fades the metal tip and melts down the plastic part of the probe tip.

Tips:

— Please do not keep the probe on the test point (hole) when it is not used.

— Do not exert too much pressure on the probe.

— Do not connect the probe with hot objects.

2. Probe wire is broken off or aging:

Reasons:

i. The connecting part between the probe and cable is bended too much during operation.

ii. The cable is strained or twisted too much during operation or storage.

Tips:

— Hold the probe body when using the probe and do not bend the connecting part of the probe and cable too much.

— Do not strain the probe or twist the cable.

3. Retractable hook tip is broken off:

Reason:

The probe is shaken hardly after retractable hook tip is connected to the device under test.

Tips:

— Do not strain or shake the probe after retractable hook tip is connected to the device under test.

— Remove the retractable hook tip from the device under test when the probe is not used.

4. Ground wire is broken off or missing:

Reasons:

i. The ground wire breaks when connecting or disconnecting the probe and the ground alligator clip.

ii. The probe is strained hardly after the ground alligator clip is connected to the ground wire of the device under test.

Tips:

— Do not disconnect the ground alligator clip from the probe as far as possible.

— Do not strain or shake the probe after the ground alligator clip is connected to the device under test.

NOTES

CAT I: IEC Measurement Category I, which is for measurements performed on circuits not directly connected to AC line under Category I overvoltage conditions.

⊠

Equipment protected throughout by DOUBLE INSULATION or REINFORCED INSULATION

⚠

Review this user manual carefully to avoid injury and prevent damage to this product or any products connected to it. To avoid potential hazards, use this product only as specified.

⚠

The measurement category of a combination of a PROBE ASSEMBLY and an accessory is the lower of the measurement categories of the PROBE ASSEMBLY and of the accessory.

⚠

If the PROBE ASSEMBLY is used in a manner not specified by the manufacturer, the protection provided by the PROBE ASSEMBLY may be impaired.

探头参数 (Probe Characteristics)

性能指标 (Technical Specifications)		
带宽 (-3dB)	Bandwidth (-3dB)	1.5GHz
衰减比	Attenuation Ratio	10:1 (Fixed)
输入电阻 (探头+示波器)	Input Resistance (Probe+Scope)	500Ω±10Ω
输入电容	Input Capacitance	1.6pF
示波器输入耦合	Scope Input Coupling	50Ω
最大输入电压	Maximum Input Voltage (AC RMS)	7V CAT I
一般规格 (General Specifications)		
操作环境	Operation Environment	0~50℃ 0~80%RH
存放环境	Storage Environment	-20~60℃ 0~90%RH
探头尺寸	Cable Length	145±2cm
探头重量	Weight	48±2g

探头零件清单 (Accessory Kit)

Item	名称描述	Description	Quantity
1	探头	Probe Head	1
2	前端护套 (长、短)	Barrel Insulator (long, short)	2
3	探头钩	Hook Tip	1
4	标识环 (黄、粉、浅蓝、深蓝)	Marker Rings (yellow, pink, light blue and dark blue)	8
5	接地鳄鱼夹	Ground Alligator Clip	1
6	接地弹簧	Ground Spring	2

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RIGOL®

用户手册
User's Guide



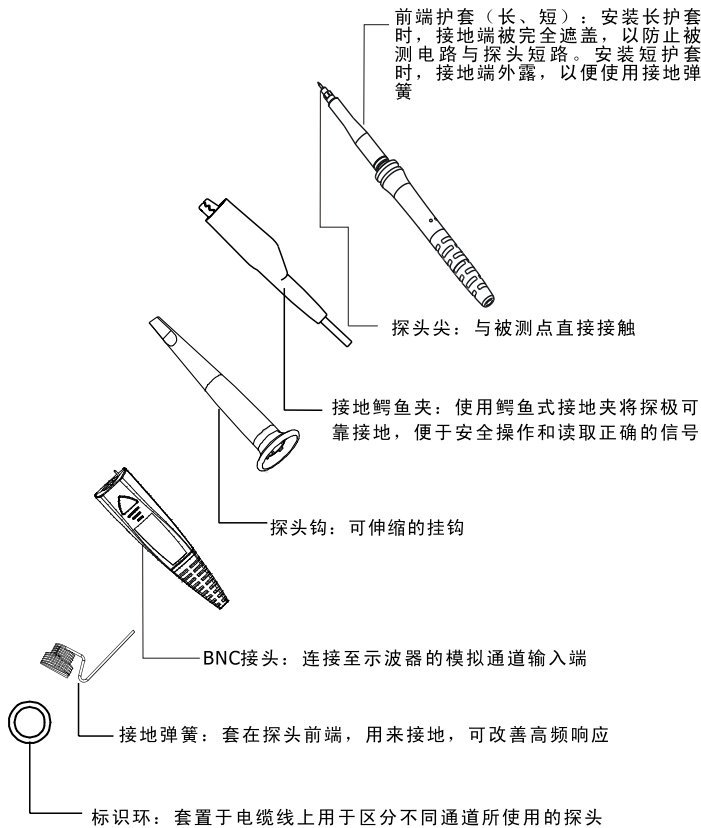
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RP6150A无源探头

RP6150A Passive Probe

附件说明

RP6150A系列探头配有附件，使测试更为方便。请在使用前尽量熟悉下列说明，以便更好地使用。



常见故障

1. 探针折断

成因：

- i. 探头跌落或物理冲击导致探针折断。
- ii. 探针与过热的测试点连接导致金属针褪色、探针连接塑料部分融化。

操作提示：

- 探头不使用时，请勿将探针留在被测装置的被测点（孔）处。
- 防止给探头过度施压。
- 避免探针与过热物体连接。

2. 电缆线折断或老化

成因：

- i. 在操作过程中过度弯曲探头和电缆线连接部位。
- ii. 在操作过程中或存放时电缆线被过度拉紧、缠绕。

操作提示：

- 手握探头时需握在坚实部位，避免过度弯曲探头和电缆线连接处。
- 避免用力拉扯电缆线，存放时避免电缆线缠绕。

3. 探头钩折断

成因：

探头钩固定在被测物后，用力摇晃导致探头钩折断。

操作提示：

- 探头钩固定在被测物后，请勿用力拉扯或大幅度摇晃。
- 当探头不使用时，请勿将探头钩继续挂在被测装置上。

4. 接地线折断或丢失

成因：

- i. 在连接或分开探头和接地鳄鱼夹时，拉断接地线。
- ii. 接地鳄鱼夹连接被测装置的地线以后，仍用力拉扯导致拉断接地线。

操作提示：

- 尽量避免将接地鳄鱼夹与探头分开。
- 接地鳄鱼夹固定在被测物后，请勿用力拉扯或大幅度摇晃。

注意事项

CATI: IEC测量类别I。在类别I过压情况下, 用于在不直接连接到市电的电路上进行的测量。

☐ 设备通过双重绝缘或加强绝缘保护。

⚠ 使用前请仔细阅读用户手册以避免人员损伤和设备及其所连接设备的损害。为避免危险，请按说明正确使用。

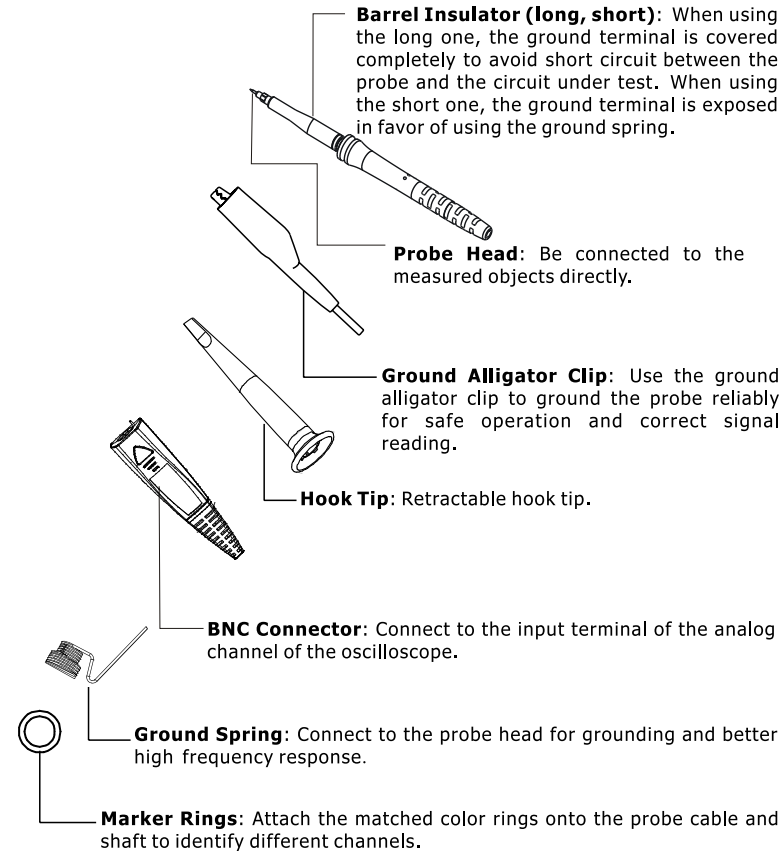
⚠ 探头与（辅助测试的）附件组合的测量等级是它们组合的较低者。

⚠ 如果用户不按照说明书使用探头，那么探头所提供的保护将会降低或消失。

注：产品规格如有变更，恕不另行通知。

Accessories and Features

RP6150A is provided with several accessories designed to make probing and measurement simpler. Please take a moment to familiarize yourself with these accessories and their uses.



Note: Contents of this document are subject to change without notice.