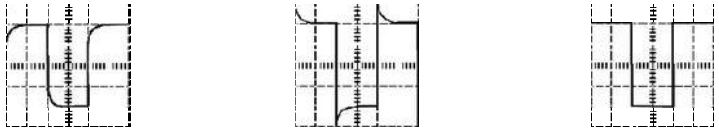
How to Adjust the Probe Compensation

Frequency Compensation

You are suggested to compensate probe so as to match its characteristics to oscilloscope.
The probes can be adjusted for low-frequency compensation.
Low-frequency compensation needs to be done while first connection.

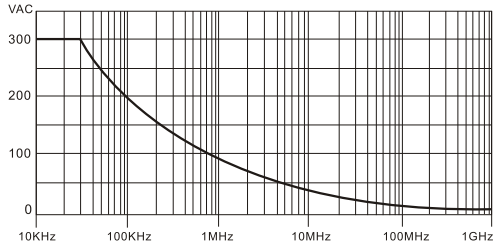
Low-frequency compensation

1 Connect the probe to the signal terminal for adjusting probe at the front-panel of the Oscilloscope in order to start low-frequency compensation.
2 Press the "Auto" key on the front panel of the oscilloscope.
3 Use the adjustment too to adjust the low frequency adjustment hole to obtain the most flattest pulse. (See figures below)



Incorrect　　Incorrect　　Correct

Voltage vs Frequency Rating Curve



CAT II: IEC Measurement Category II. Inputs may be connected to mains(up to 300 VAC) under Category II 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	Bandwidth	DC~500MHz
衰减率	Attenuation Ratio	10:1 (Fixed)
输入阻抗	Input Resistance	10MΩ ±2%
输入电容	Input Capacitance	13pF±3pF
最大输入	Maximum Input	CAT Ⅱ 300VAC
补偿范围	Compensation Range	6pF~24pF
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	Size	140±2cm
探头重量	Weight	About 56g

探 头 零 件 清 单 (Accessory Kit)

Item	名称描述	Description	Quantity
1	探头	Probe	1
2	探头钩	Retractable Hook Tip	1
3	补偿调节棒	Adjustment Tool	1
4	绝缘保护帽	Locating Sleeve	1
5	标识环（黄, 粉, 浅蓝, 深蓝）	Marker Rings (yellow, pink light blue, and dark blue)	8
6	接地鳄鱼夹	Ground Lead	1
7	接地弹簧	Ground Spring	1

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RIGOL®

用户手册
User's Guide



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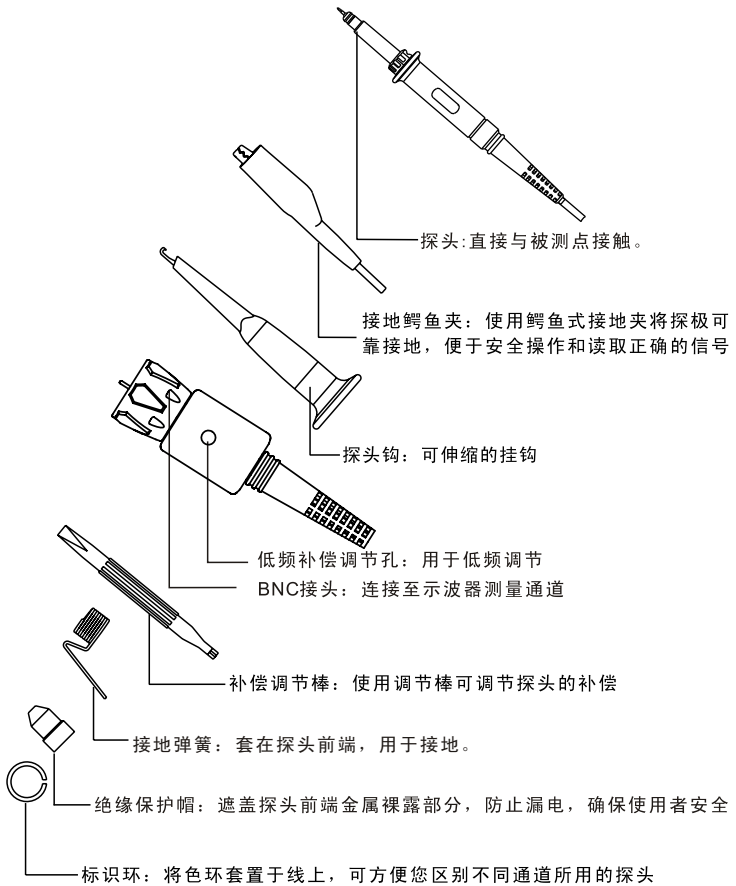
RP3500无源示波器探头

RP3500 Passive Oscilloscope Probe

附件说明

RP3500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。



调节探头补偿

探头频率补偿

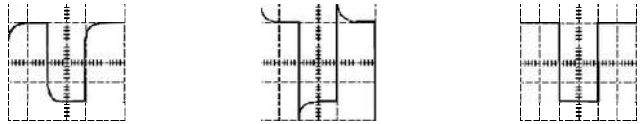
您需要对探头进行补偿使其特性和示波器匹配。RP3500允许您进行低频补偿。首次将探头与示波器相连时需进行低频补偿。

低频补偿

1 将探头连接到示波器前面板的校准信号输出端和信号输入端。

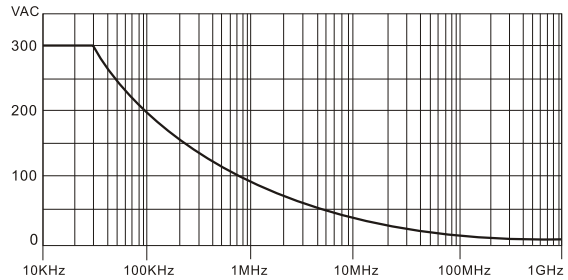
2 按下示波器前面板的Auto键，屏幕将显示1kHz的方波。

3 使用调节棒调节探头的低频补偿调节孔,直至得到下图所示的平坦方波。



错误　　错误　　正确

最大输入电压-频率特征图



CAT II:IEC测量类别II。在类别II过压情况下，输入可能连接到电力干线（高达300V AC）

回 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。

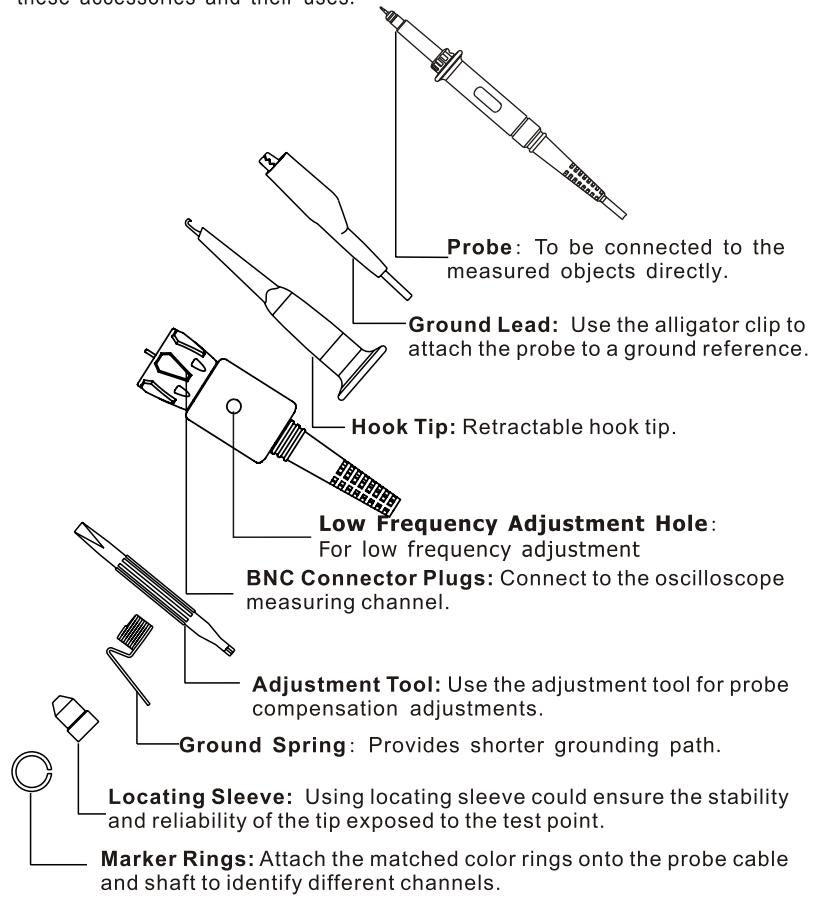
⚠ 探头与（辅助测试的）附件组合的测量等级是它们组合的较低者。

⚠ 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

RP3500 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.