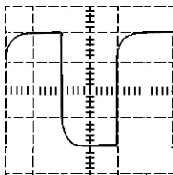


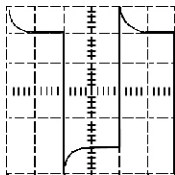
How to Adjust the Probe Compensation

Frequency Compensation

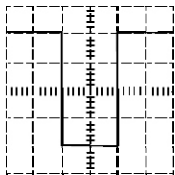
Before taking any measurements using a probe, first check the compensation of the probe and adjust it to match the channel inputs. Generally, the oscilloscope provides a calibration signal output terminal at the front panel. Connect the probe to the signal output terminal to display a square waveform on the oscilloscope and set the probe attenuation to 10X. Adjust trimmer until seeing flat-top square wave on the display.



Incorrect

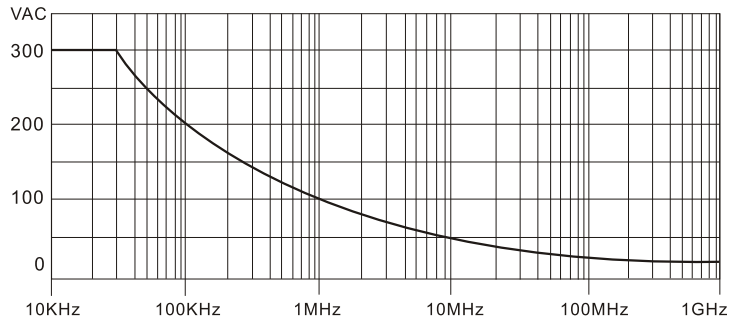


Incorrect



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)

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	140±2cm
探头重量	Weight	About 45g
带宽	Bandwidth	1X: DC~7MHz 10X: DC~150MHz
上升时间	Rise time	1X: 50ns 10X: 2.3ns
衰减率	Attenuation Ratio	10:1 or 1:1 Switchable
输入阻抗	Input Resistance	1X: 1MΩ ±2%Ω 10X: 10MΩ ±2%Ω
输入电容	Input Capacitance	1X: 100pF±20pF 10X: 17pF±5pF
最大输入	Maximum Input	1X: CAT II 150V AC 10X: CAT II 300V AC
补偿范围	Compensation Range	5pF~29pF

探头零件清单 (Accessory Kit)

Item	名称描述	Description	Quantity
1	探头	Probe	2
2	探头钩	Hook Tip	2
3	补偿调节棒	Adjustment Tool	1
4	绝缘保护帽	Locating Sleeve	2
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 Alligator Clip	2
7	接地弹簧	Ground Spring	2

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RIGOL®

用户手册 User's Guide



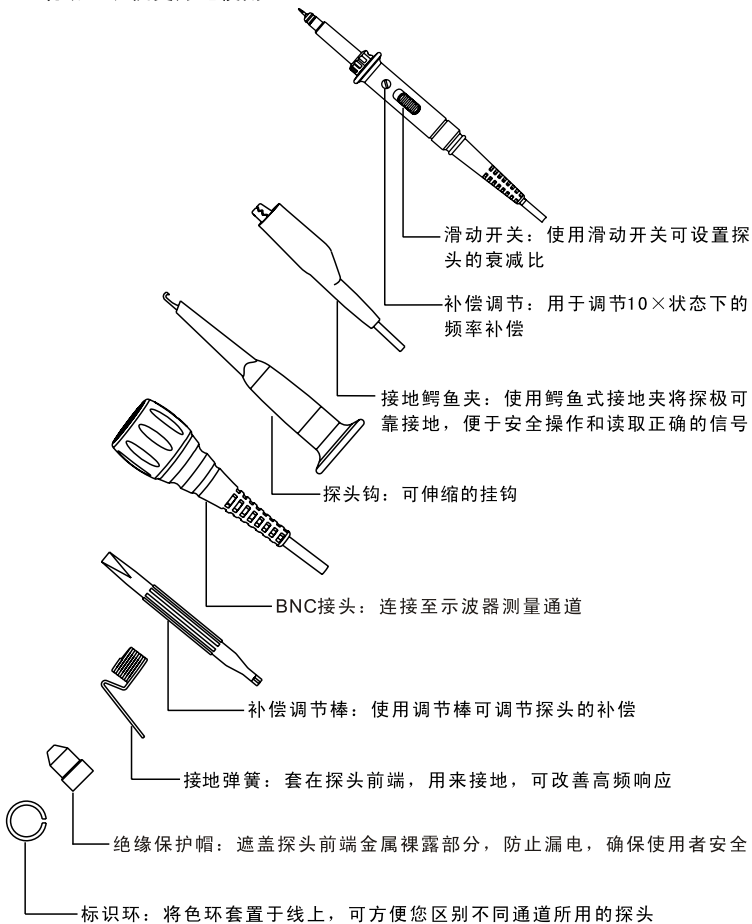
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RP2200型无源示波器探头

RP2200 Passive Oscilloscope Probe

附件说明

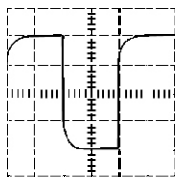
RP2200系列探头配有附件，使测试更为方便。请在使用前尽量熟悉下列说明，以便更好地使用。



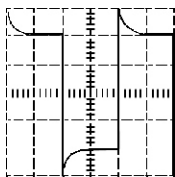
调节探头补偿

探头频率补偿

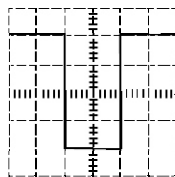
使用探头进行测试前，首先检查探头的频率补偿，将其调至与所使用的示波器匹配。一般示波器的前面板上都有一个校准信号输出端，将探头接至此信号输出端，令示波器显示 1kHz测试方波信号，探头衰减设置为10X位置。用调节棒调节探头前端的补偿调节处，使方波上方平整。



错误

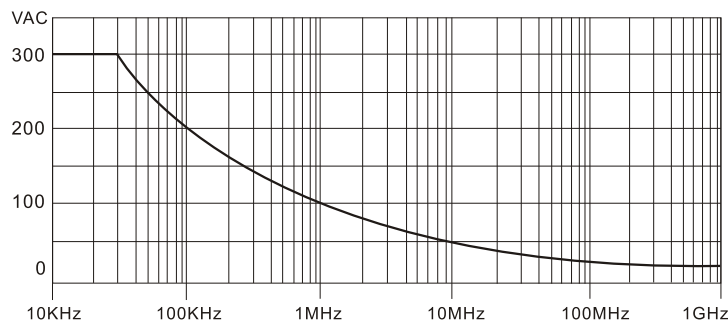


错误



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300VAC）

☐ 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

RP2200 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.

