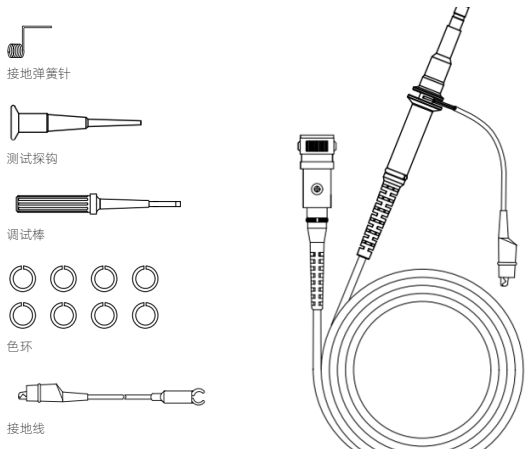


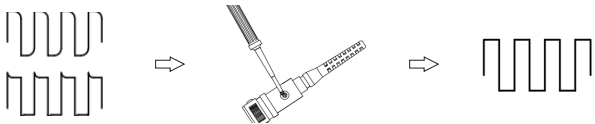
MSP510 无源探头用户手册

装配图



校准

使用探头进行测试前，请先检查本品的低频补偿，将其调至与使用的示波器匹配。一般的示波器在其前面板上都有一个校准信号输出端，将探头接到此信号源，示波器显示 1kHz 测试信号。如图所示，用调试棒调节探头 BNC 端的可变电容旋钮，使波形上下平整。



* 注：探头连接到不同通道时需要重新校准，一个通道校准一次即可。



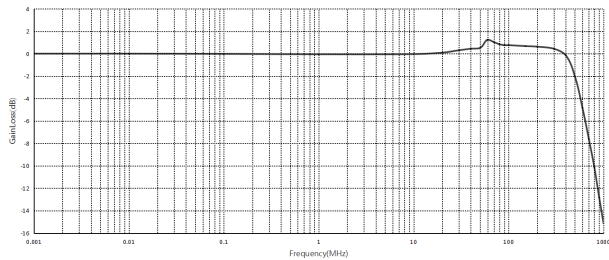
技术参数

除另行指明外，所有技术规格均为典型值。技术规格在以下情况下有效：

- 连接的示波器必须具有 1MΩ 的输入阻抗，且至少有 20 分钟的预热时间
- 探头已正常完成校准
- 探头所处环境的温度、湿度不能超出所述的环境要求限制

型号	MSP510
带宽	500MHz
上升时间	≤ 800ps
衰减	1:10
输入电阻	10MΩ
输入电容	10.5pF±0.5pF
可调电容范围	4~24pF
最大安全工作电压	< 600Vpk
净重	< 53g
线长	132cm±1.5cm
工作温度	-10℃ ~ +50℃
工作湿度	< 85%（相对湿度）

幅频特性图



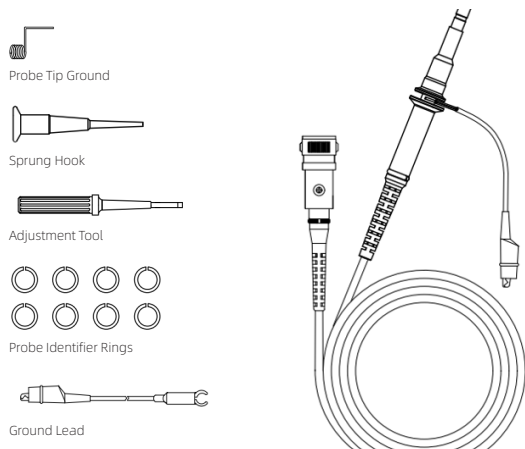
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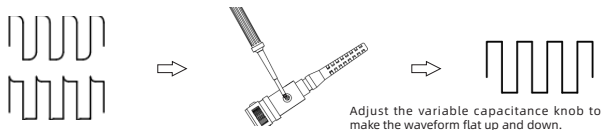
MSP510 Passive Probe User Guide

Assembly



Calibration

Before using the probe for testing, please check the compensation of the probe first and adjust it to match the channel inputs. Most oscilloscopes have a square wave reference signal available at a terminal on the front panel used to compensate the probe. Connect the probe to the signal source to display a 1 kHz test signal on your oscilloscope.



*Note: When the probe is connected to a different channel, it needs to be recalibrated. Each channel only needs to be calibrated once.



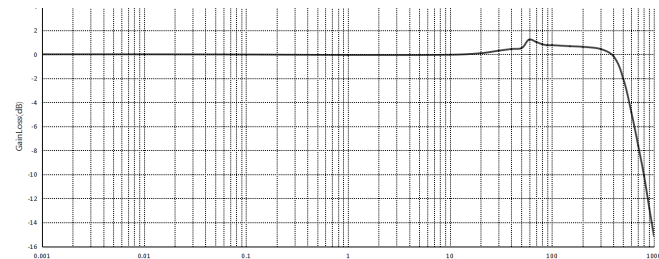
Specifications

Unless otherwise specified, all specifications are typical values and valid under the following conditions:

- Oscilloscope must have an input impedance of $1M\Omega$ and warm up for 20 minutes at least.
- The probe has been calibrated properly.
- The temperature and humidity must not exceed the specified requirements.

Model	MSP510
Bandwidth	500MHz
Rise Time	$\leq 800ps$
Attenuation	1:10
Input Resistance	$10M\Omega$
Input Capacitance	$10.5pF \pm 0.5pF$
Adjustable Capacitor Range	4~24pF
Max. Working Input Voltage	< 600Vpk
Net Weight	< 53g
Length	$132cm \pm 1.5cm$
Working Temperature	$-10^{\circ}C \sim +50^{\circ}C$
Working Humidity	< 85% (Relative)

Amplitude-Frequency characteristics curve



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