

## INTRODUCTION

The ZP2100 passive low impedance oscilloscope probe can be used on oscilloscopes with an input impedance of  $50\Omega$ . The probe bandwidth is 1GHz, with a fixed 10 fold attenuation. The probe provides a low capacitance, low impedance ground connection for routine measurements to ensure the signal integrity of the test signal.

## GENERAL CONSIDERATIONS



CAUTION symbol indicates a hazard. Improper handling or execution can lead to loss of important data or damage to the instrument.

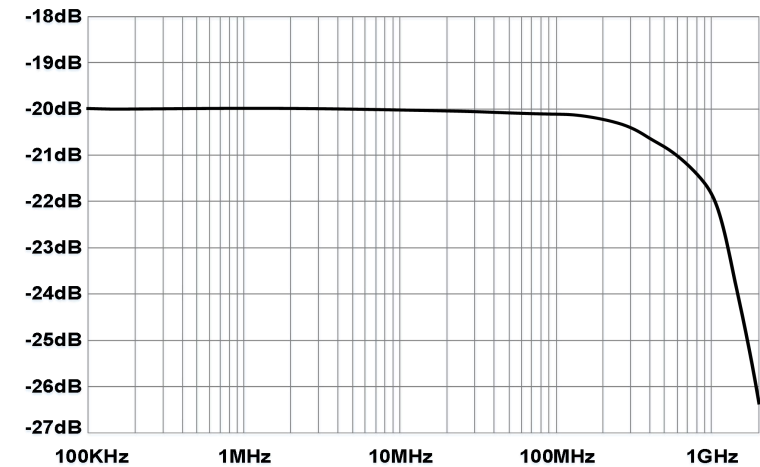
- Connect only to grounded instruments. Use only with compatible Siglent oscilloscopes that have their BNC input connected to an earth ground. Do not connect the probe reference lead to any point which is at a potential other than earth ground.
- Connect and disconnect properly. Connect probe to the oscilloscope before connecting it to the test circuit. Disconnect the probe input and reference lead from the test circuit before disconnecting from the oscilloscope. Do not connect or disconnect probes while they are connected to a voltage source.
- Do not keep the probe on the test point/hole when it is unused.
- Do not apply excessive force on the probe.
- Do not overload. Do not apply any potential to the probe leads that exceeds the maximum rating of the probe. Always comply with the Voltagevs. Frequency Derating Curve.
- Do not remove probe casing. Touching exposed connections may result in electric shock.
- Do not use in wet or explosive atmospheres. Keep product surfaces clean and dry.
- Handle with care. Probe tips are extremely sharp and may puncture skin or cause other bodily injury if not handled properly.
- Do not operate with suspected failures. Before each use, inspect the probe and accessories for any potential damage such as tears or other defects in the probe body, cable jacket, accessories, etc. If any part is damaged, cease operation immediately and sequester the probe from inadvertent use.

**Cleaning:** Cut off power supply; Use a damp but not dripping soft cloth (with a mild detergent or water) to wipe the dust outside the instruments.

## SPECIFICATIONS

|                               |  |
|-------------------------------|--|
| Bandwidth(-3 dB)              | 1GHz   |
| Attenuation ratio             | 10:1 (fixed)   |
| Input resistance              | $500\Omega \pm 10\Omega$ (terminated into $50\Omega$ ) |
| Input capacitance             | 1.5 pF   |
| Signal Delay                  | 7.5ns  |
| Maximum Input Voltage(AC RMS) | 10V CAT I  |
| Cable length                  | $130 \pm 2\text{cm}$                                   |
| Cable Weight                  | 40g  |
| Operating Temperature         | 0 to 50 °C, 0 to 80% RH                                |
| Storage Temperature           | -20 to 70 °C, 0 to 90% RH                              |

## Typical Frequency Response



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**ZTMI**

简介

ZP2100 无源低阻抗示波器探头可在输入阻抗为 50Ω 的示波器上使用。探头带宽为 1GHz，固定 10 倍衰减。探头为常规测量提供低电容、低阻抗地的连接，以确保测试信号的信号完整性。

一般注意事项



警告符号表示存在危险。用户操作时，如果不按照说明书的要求操作，则可能对产品造成损坏或者丢失重要数据。

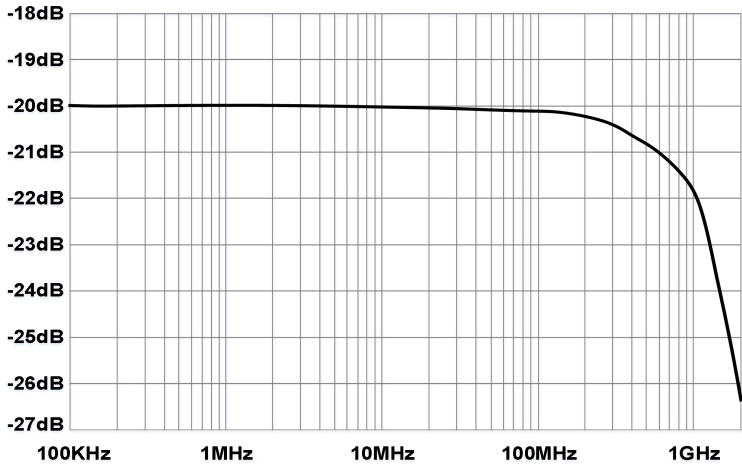
- 仅连接到接地仪器。仅与兼容的 BNC 输入接地的信号示波器一起使用。不要将探针参考引线连接到任何非接地电位点。
- 正确连接和断开。在将探头连接到测试电路之前，先将探头连接到示波器。在从示波器上断开之前，从测试电路上断开探头输入和参考导线。当探针连接到电压源时，不要连接或断开探针。
- 不使用时，不要将探针放在测试点/孔上。
- 不要在探针上施加过大的力。
- 不要过载。不要对探针引线施加超过探针最大额定值的任何电压。始终遵守电压与频率降额曲线。
- 不要拆除探头外壳。触摸裸线可能会导致触电。
- 请勿在潮湿或易爆环境中使用。保持产品表面清洁干燥。
- 小心轻放。探针尖端非常锋利，如果处理不当，可能会刺破皮肤或造成其它身体伤害。
- 不要在怀疑有故障的情况下运行。每次使用前，检查探头和附件是否有任何潜在的损坏，如探头体、电缆护套、附件等的撕裂或其它缺陷。如果有任何部件损坏，立即停止操作，并远离探头以防意外使用。

**清洁方法：**断开电源；用潮湿但不滴水的软布（可使用柔和的清洁剂或清水）擦拭探头外部的浮尘。

技术参数

|           |                       |
|-----------|-----------------------|
| 带宽(-3 dB) | 1GHz                  |
| 衰减比       | 10:1 (固定)             |
| 输入阻抗      | 500Ω±5Ω(端接到 50Ω时)     |
| 输入电容      | 1.5 pF                |
| 传输延时      | 7.5ns                 |
| 最大输入电压    | 10V CAT I             |
| 电缆长度      | 130±2cm               |
| 线缆重量      | 40g                   |
| 操作环境      | 0 至 50℃, 0 至 80% RH   |
| 存储环境      | -20 至 70℃, 0 至 90% RH |

探头幅频响应



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