

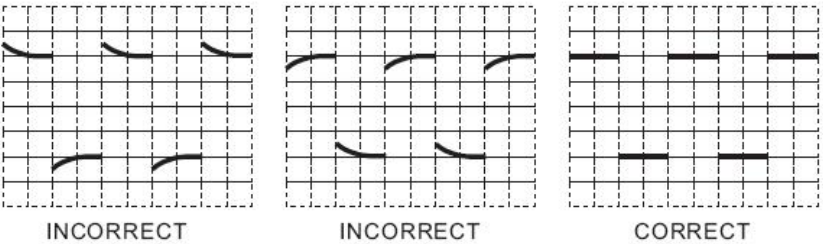
# INTRODUCTION

This passive high impedance oscilloscope probe designed and calibrated for use on instruments having an input impedance of 1M Ohm shunted by 15 pF. However, it may be compensated for use with instruments have an input capacitance of 10-30pF. The probe incorporates a two position slide switch in the head which selects attenuation of  $\times 1$ ,  $\times 10$ .

# LOW-FREQUENCY COMPENSATION ADJUSTMENT

Low frequency response can be matched to the oscilloscope by adjusting the compensation trimmer on the probe. Connect the probe to the oscilloscope and to a 1KHz square waveform source. For  $\times 1/\times 10$  probes, switch to the  $\times 10$  position. Set the oscilloscope to display two to three cycles and two to six vertical divisions.

Carefully adjust the trimmer tool to obtain the flattest tops to the square waves displayed on this oscilloscope, see follow illustrations.



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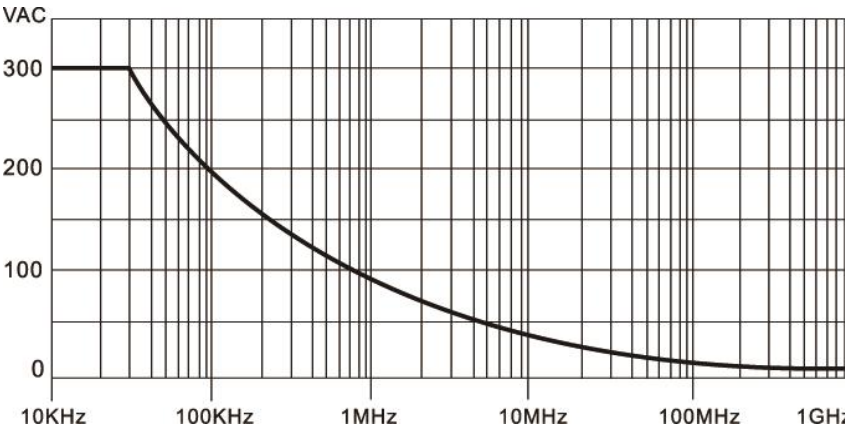


Service Hotline:400-888-4005

# SPECIFICATIONS

|                                                       |                                                               |
|-------------------------------------------------------|---------------------------------------------------------------|
| Bandwidth(-3 dB)                                      | $\times 1$ : DC-6MHz、 $\times 10$ : DC-250MHz                 |
| Rise time(10% - 90%)                                  | $\times 1$ : 58ns、 $\times 10$ : 1.4 ns                       |
| Attenuation ratio                                     | 1:1/10:1 (switchable)                                         |
| Input resistance (when terminated into 1 M $\Omega$ ) | $\times 1$ : 1M $\Omega$ 、 $\times 10$ : 10M $\Omega$         |
| Input capacitance                                     | $\times 1$ : 95 pF $\pm$ 10 pF、 $\times 10$ : 14pF $\pm$ 5 pF |
| Maximum input voltage                                 | $\times 1$ : 150VRMS CAT II<br>$\times 10$ : 300VRMS CAT II   |
| Net weight                                            | $\approx$ 55g                                                 |
| Cable length                                          | $\approx$ 120cm                                               |
| Operating temperature                                 | -10 $^{\circ}$ C to 50 $^{\circ}$ C                           |
| Storage temperature                                   | -20 $^{\circ}$ C to 75 $^{\circ}$ C                           |
| Humidity                                              | $\leq$ 85% (Relative humidity)                                |

# VOLTAGE DERATING CURVE



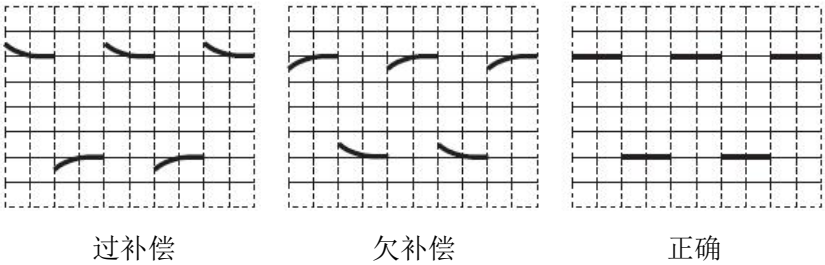
简介

ZP1025SA 无源高阻抗示波器探头可在输入阻抗为 1MΩ（并联 15pF 的电容）的仪器上使用。通过补偿，它还可以用在 10-30pF 输入电容的示波器上。探头前端有一个两位置的滑动开关，可以选择×1 和×10 的衰减比。

低频补偿调节

通过调节探头上的补偿调节处使低频响应与示波器匹配。探头连接到示波器和一个 1KHz 的方波源。×1/×10 的探头切换到×10 位置。调节示波器，使屏幕上显示 2~3 个信号周期且信号所占垂直刻度为 2 至 6 格。

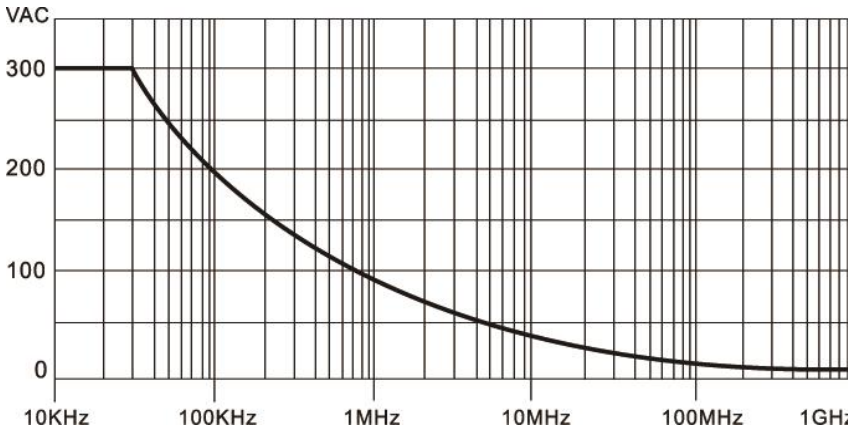
调节调节棒，直到示波器显示最理想的方波，如下图所示。



技术参数

|                   |                                            |
|-------------------|--------------------------------------------|
| 带宽(-3 dB)         | ×1: DC-6MHz、×10: DC-250MHz                 |
| 上升时间(10% - 90%)   | ×1: 58ns、×10: 1.4 ns                       |
| 衰减比               | 1:1/10:1 (可切换)                             |
| 输入阻抗 (端接到 1 MΩ 时) | ×1: 1MΩ、×10: 10MΩ                          |
| 输入电容              | ×1: 95 pF±10 pF、×10: 14pF±5 pF             |
| 最大输入电压            | ×1 : 150VRMS CAT II<br>×10: 300VRMS CAT II |
| 净重                | 约 55g                                      |
| 电缆长度              | 约 120cm                                    |
| 工作温度              | -10℃至 50℃                                  |
| 储存温度              | -20℃至 75℃                                  |
| 湿度                | ≤85%（相对湿度）                                 |

电压降额曲线



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