

# Oscilloscope Probe Kit

## Model. HP-2100I

CE



## Introduction

The HP-2100I is a passive high impedance oscilloscope probe designed and calibrated for use with instruments having an input impedance of  $1M\Omega$  shunted by  $20pF$ . However, it may be compensated for use with instruments having an input capacitance of 10 to  $30pF$ . The probe incorporates a two position slide switch in the head which selects attenuation of  $\times 1$ ,  $\times 10$  position.

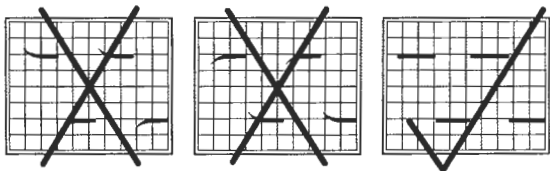
## Safety Instructions

Review the following safety precautions 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 common terminal is at ground potential. Do not connect the common terminal to elevated voltages.
- Do not operate in an explosive atmosphere.
- Keep product surfaces clean and dry.
- If your probe requires cleaning, disconnect it from the instrument and clean it with mild detergent and water. Make sure the probe is completely dry before reconnecting it to the instrument.

## Compensation Adjustment

The following adjustment is required whenever the probe is transferred from one oscilloscope or input channel to another. Connect the probe to the oscilloscope and select  $\times 10$  position on the probe switch. Apply a  $1KHz$  square wave to the probe tip, or connect to the cal socket on the oscilloscope to display a few cycles of the waveform and adjust the trimmer located in the probe body for a flat topped square wave.



## Specifications

### **Position X10**

Attenuation Ratio	10:1
Bandwidth	DC to 100MHz
Rise Time	3.5nS
Input Resistance	10M $\Omega$ when used with oscilloscopes which have 1M $\Omega$ input.
Input Capacitance	Approx. 12pF
Compensation Range	10 to 30pF
Max. Input Voltage	600V CAT I, 300V CAT II (DC + peak AC) derating with frequency (see Fig.1)

### **Position X1**

Attenuation Ratio	1:1
Bandwidth	DC to 25MHz
Rise Time	14nS
Input Resistance	1M $\Omega$ (oscilloscope input resistance)
Input Capacitance	Approx. 49pF
Max. Input Voltage	300V CAT I, 150V CAT II (DC + peak AC) derating with frequency

Operating Temperature	0 $^{\circ}$ C to 50 $^{\circ}$ C
Humidity	85% RH or less (at 35 $^{\circ}$ C)
Safety	Meets EN61010-031 CAT II
Cable Length	1.2 Meter

## Accessories

### **Description**

Channel Identifier Clip  
Sprung Hook  
Ground Lead  
Insulating Tip  
IC Tip  
Adjusting Tool  
Measuring Tip  
Sprung Earth Tip

### **Part No.**

PA-105  
PA-106  
PA-107  
PA-108  
PF-902  
PF-903  
PA-102  
PF-905

# Voltage Derating Curve

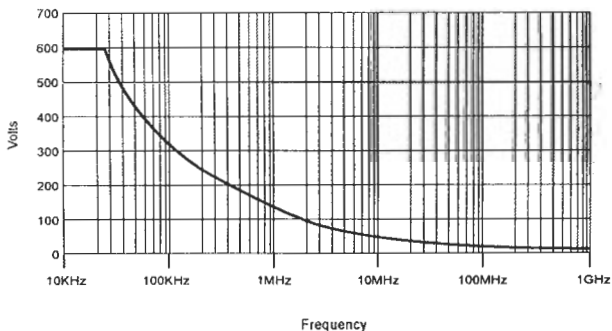


Fig.1

Made in Taiwan  
Version:HF-E0101A

