

## Voltage Derating Curve

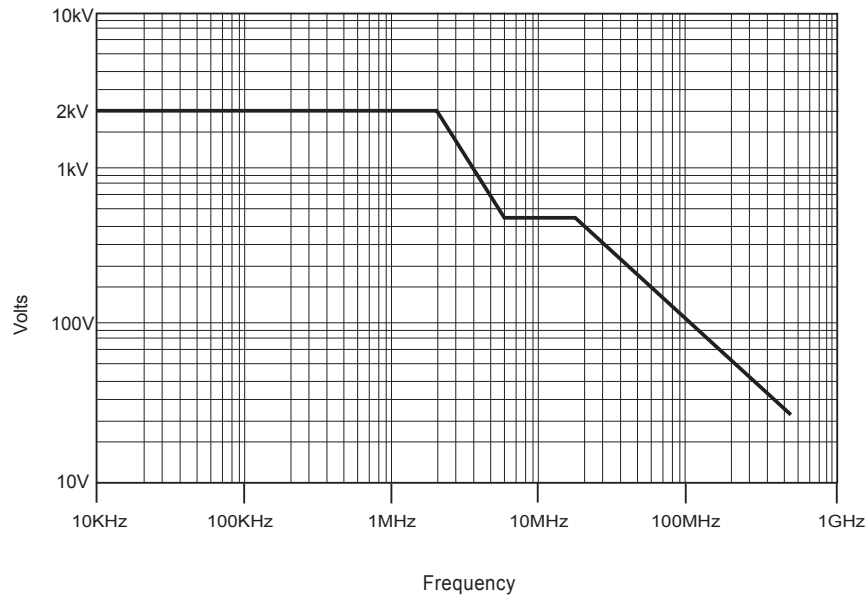


Fig.1

# Oscilloscope Probe Kit Model. PRB-02



Made in Taiwan  
Version:HF-E0101A



## Introduction

The PRB-02 is a low-input capacitance high voltage oscilloscope probe designed and calibrated for use with instruments having an input impedance of 1M shunted by 20pF. However, it may be compensated for use with instruments having an input capacitance of 10 to 30pF. The PRB-02 probe is also compatible with readout function oscilloscopes that automatically detect probe attenuation and adjust the scale readout accordingly.

## Safety Instructions

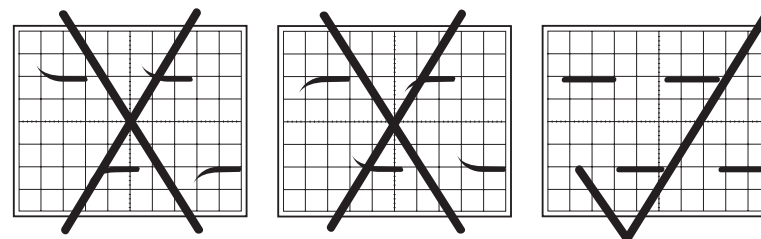
Review the following safety precautions to avoid injury and prevent damage to this product or any products connected to it. To avoid potential hazards, use this product only as specified. The common terminal is at ground potential. Do not connect the common terminal to elevated voltages. Do not operate 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, apply a 1KHz square wave to the probe tip and adjust the oscilloscope controls to display a few cycles of the waveform. Adjust the trimmer located in the BNC box for a flat topped square wave.

## Specifications

|                       |   |
|-----------------------|---|
| Attenuation Ratio     | 100:1   |
| Bandwidth             | DC to 300MHz  |
| Rise Time             | 1.16nS  |
| Input Capacitance     | Approx. 5.5pF   |
| Compensation Range    | 10 to 30 pF   |
| Working Voltage       | 1500Vrms CAT II (2000V DC incl. peak AC) derating with frequency, (see Fig.1) |
| Operating Temperature | 0°C to 50°C   |
| Humidity              | 85% RH or less (at 35°C)  |
| Safety                | Meets E61010-031 CAT II   |
| Cable Length          | 1.35 Meter  |



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