

Oscilloscope Probe Kit

Model. HP-9151R



Introduction

The HP-9151R is a passive high impedance oscilloscope probe designed and calibrated for use with instruments having an input impedance of $1\text{ M}\Omega$ shunted by 20 pF . However, it may be compensated for use with instruments having an input capacitance of 10 to 35 pF . The HP-9251R is also compatible with readout function oscilloscopes that automatically detect probe attenuation and adjust the scale readout accordingly.

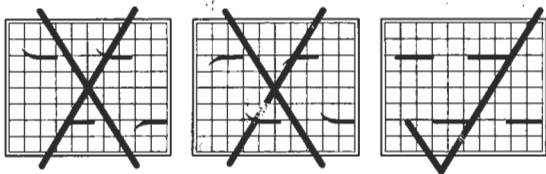
Safety Instructions

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 1 KHz 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 BNC plug for a flat topped square wave.



Specifications

Attenuation Ratio	10:1
Bandwidth	DC to 150MHz
Rise Time	2.3nS
Input Resistance	10M Ω when used with oscilloscopes which have 1M Ω input.
Input Capacitance	Approx. 17 pF
Compensation Range	10 to 35 pF
Max. Input Voltage	600V CAT I, 300V CAT II (DC $\frac{1}{\sqrt{2}}$ peak AC) derating with frequency (see Fig. 1)
Operating Temperature	-10 $^{\circ}$ C to 55 $^{\circ}$ C
Humidity	85% RH or less (at 35 $^{\circ}$ C)
Safety	Meets IEC1010-1 CAT. II
Cable Length	1.2 Meter



The HP-9151R is compatible with readout function oscilloscopes that automatically detect and display the attenuation factor of the probe.

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

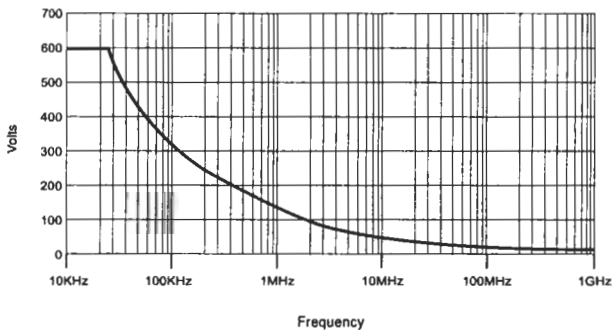


Fig.1