

Voltage Derating Curve

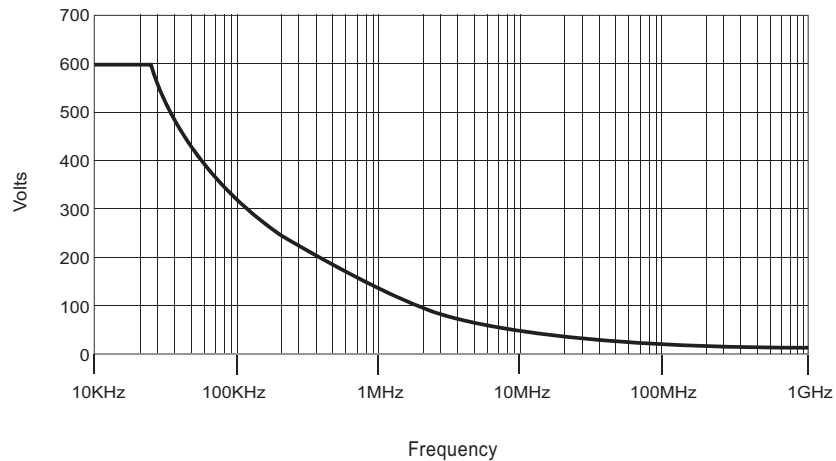


Fig.1

Accessories

Description	Part No.	Qty
Channel Identifier Clip	PA-105	2x5
Sprung Hook	PA-106	1
Ground Lead	PA-107	1
Insulating Tip	PA-108	1
IC Tip	PF-902	1
Trimmer Tool, Deluxe	PA-606	1
Measuring Tip	PA-102	1
Probe Tip Ground	PF-905A/B/C/D	1x4
BNC Adapter	PF-901	1
SMT Test Clip	PA-619	3
Ground Lead W/Jack	PA-109	1
Twin Lead Adapter, 5mm	PA-110	1

Oscilloscope Probe Kit Model. CP-3501R/Pro



Made in Taiwan
Version:HF-E0101A

Introduction

The CP-3501R/Pro 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 13pF .

However, it may be compensated for use with instruments having an input capacitance of 8 to 20pF .

The CP-3501R/Pro is also compatible with readout function oscilloscopes that automatically detect probe attenuation and adjust the scale readout accordingly.

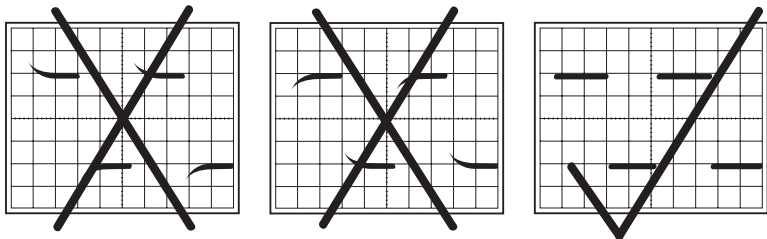
Safety Instructions

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.

L.F. Compensation Adjustment

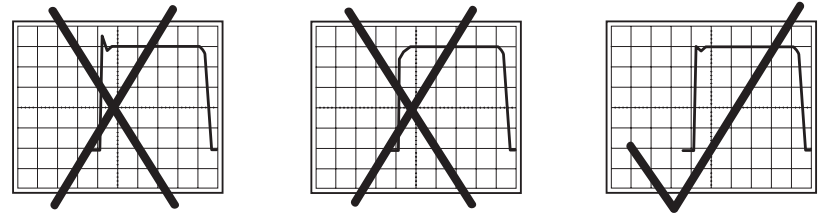
The following adjustment is required whenever the probe is transferred from one oscilloscope or input channel to another. Connect the probe to the oscilloscope, apply a 1KHz square wave to the probe tip, or connect to the cal socket on the oscilloscope to display a few cycles of the waveform and adjust the trimmer located in the BNC box for a flat topped square wave.



H.F. Compensation Adjustment

The probe high frequency (H.F.) compensation should seldom require adjustment; however, if adjustment is required, use the following procedure.

Connect the probe to a 1MHz square wave (rise time less than 0.7nS), adjust the oscilloscope controls to display one half cycle of the waveform. adjust the H.F. trimmer located in the BNC box for a flat topped square wave.



Specifications

Attenuation Accuracy	$10:1 \pm 0.5\%$ (at DC)
Bandwidth	DC to 500MHz ($\pm 0.5\text{db}$)
Rise Time	0.7nS
Input Resistance	$10\text{M}\Omega$ when used with oscilloscopes which have $1\text{M}\Omega$ input.
Input Capacitance	Approx. 12pF (Measure at 100KHz)
Compensation Range	8 to 20pF
Max. Input Voltage	600V CAT I, 300V CAT II (DC + 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 EN61010-031 CAT II
Cable Length	1.2 Meter



The CP-3501R/Pro is compatible with readout function oscilloscopes that automatically detect and display the attenuation factor of the probe.