Voltage Derating Curve

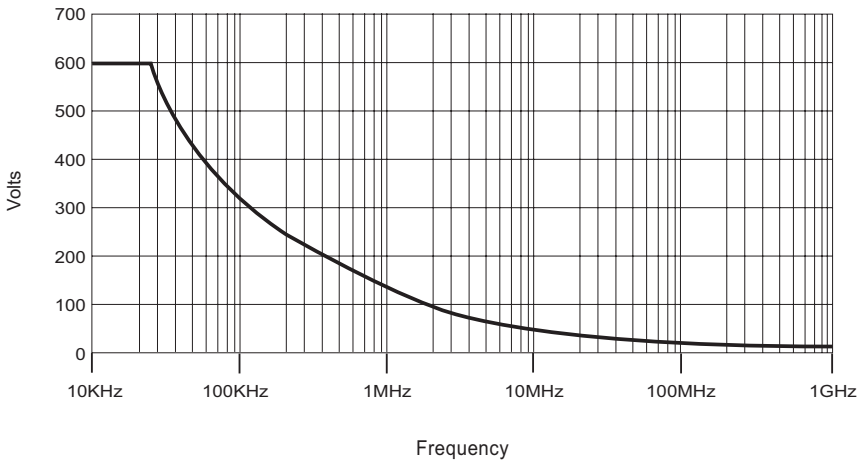


Fig.1

Made in Taiwan
Version:HF-E0101A

Oscilloscope Probe Kit
Model. CP-2350

Accessories

Description	Part No.
Channel Identifier Clip	PA-105 x4 Colors(Blue,Pink,Green,Yellow)
Sprung Hook	PA-106
Ground Lead	PA-107
Insulating Tip	PA-108
IC Tip	PF-902
Adjusting Tool	PA-606
Measuring Tip	PA-102
Sprung Earth Tip	PF-905
BNC Adapter	PF-901

Introduction

The CP-2350 is a passive high impedance oscilloscope probe designed and calibrated for use with instruments having an input impedance of 1 MΩ shunted by 15pF. However, it may be compensated for use with instruments having an input capacitance of 10 to 25pF.
The probe incorporates a two position slide switch in the head which selects attenuation of x1, x10 position.

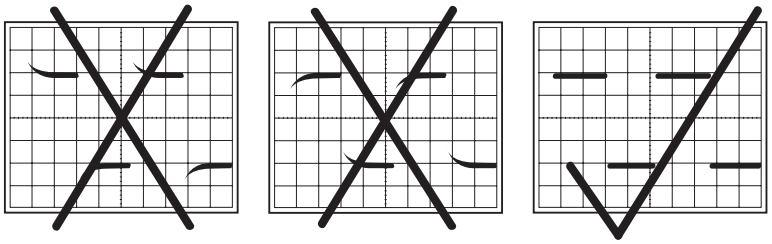
Safety Instructions

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.

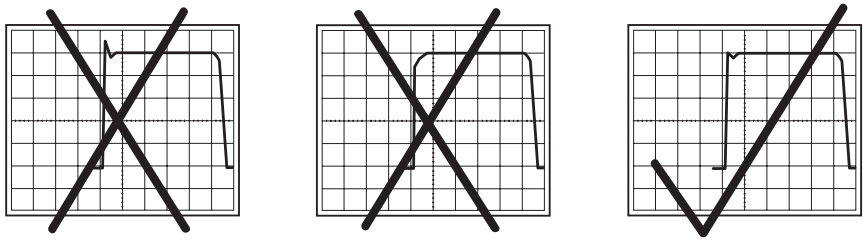
L.F. Compensation Adjustment

The following adjustment is required whenever the probe is transferred from one oscilloscope or input channel to another. Connect the probe to the oscilloscope and select x10 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 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 1nS), select x10 position on the probe switch and 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

Position X10	
Attenuation Accuracy	10:1±0.5% (at DC)
Bandwidth	DC to 350MHz (±0.5db)
Rise Time	1.0nS
Input Resistance	10MΩ when used with oscilloscopes which have 1MΩ input.
Input Capacitance	Approx. 13pF
Compensation Range	10 to 25pF
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 6MHz
Rise Time	58nS
Input Resistance	1MΩ (oscilloscope input resistance)
Input Capacitance	46pF plus oscilloscope capacitance
Max. Input Voltage	300V CAT Ⅰ, 150V CAT Ⅱ (DC + peak AC) derating with frequency.
Operating Temperature	0^{0}C to 50^{0}C
Humidity	85% RH or less (at 35^{0}C)
Safety	Meets EN61010-031 CAT Ⅱ
Cable Length	1.2 Meter