

P6509R 500MHz x10 Readout Probe

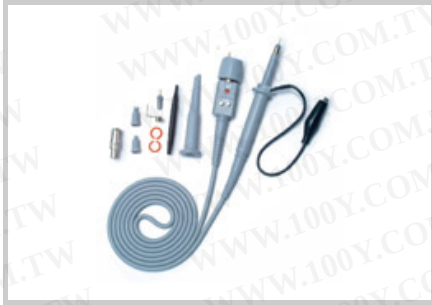
- 勝特力材料 886-3-5753170
勝特力電子(上海) 86-21-54151736
勝特力電子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)



規格參數

減半寬	10:1
帶上時	DC - 500MHz
上升阻	0.7nS
輸入電	10MQ
輪備電	8 pF
補償電	8 ~ 18 pF
最大輪	600V CAT I, 300V CAT II
操作溫	-10°C to +55°C
操作濕	85% RH or less (at 35°C)
安全規	符合 EN61010-031 CAT II 安全規範
電壓範	1.3 米

• HP6501R / P6509R



特性與優點

- 500MHz x10 Readout Probe (HP6351R)
- 500MHz x10 Readout Probe (P6509R)

規格

HP6501R 500MHz x10 Readout Probe

Attenuation Ratio	10:1
Bandwidth	DC to 500MHz
Rise Time	0.7nS
Input Resistance	10M Ω when used with oscilloscopes Which have 1 M Ω input.
Input Capacitance	Approx. 12 pF
Compensation Range	13 to 23 pF
Max. Input Voltage	600V CAT I, 300V CAT II (DC + peak AC) derating with frequency.
Operating Temperature	-10 °C to + 55 °C
Humidity	85% RH or less (at 35 °C)
Safety	Meets EN61010-031 CAT II
Cable Length	1.2 Meter

P6509R 500MHz x10 Readout Probe

Attenuation Ratio	10:1
Bandwidth	DC to 500MHz
Rise Time	0.7nS
Input Resistance	10M Ω when used with oscilloscopes Which have 1 M Ω input.
Input Capacitance	Approx. 8 pF

Compensation Range	8 to 18 pF
Max. Input Voltage	600V CAT I, 300V CAT II (DC + peak AC) derating with frequency.
Operating Temperature	-10 °C to + 55 °C
Humidity	85% RH or less (at 35 °C)
Safety	Meets EN61010-031 CAT II
Cable Length	1.3 Meter

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Voltage Derating Curve

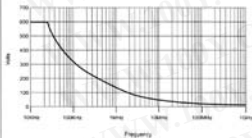


Fig.1

Accessories

Description

Slip-on Ground Lead
 Attenuator Tip Cover
 Probe Attenuator Tip
 Sprung Hook
 Trimmer Tool, Deluxe
 Low Impedance Ground Tip
 Ground Collar, Grey
 SMT Test Clip, Grey
 Slip-on Ground Lead w/Jack
 Probe Identifier Rings

Part No.

PA-613
 PA-603
 PA-605
 PA-602
 PF-606
 PA-611
 PA-610
 PA-619
 PA-612
 PA-601

Qty

1
 1
 1
 1
 1
 1
 1
 1
 1
 10

Oscilloscope Probe Kit Model. P6509R



Introduction

The P6509R is a passive high impedance oscilloscope probe designed and calibrated for use with instruments having an input impedance of 1 M Ω shunted by 13 pF. However, it may be compensated for use with instruments having an input capacitance of 8 to 18 pF. The P6509R is also compatible with readout function oscilloscopes that automatically detect probe attenuation and adjust the scale readout accordingly.

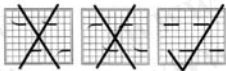
Safety Instructions

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

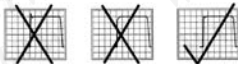
The following adjustment is required whenever the probe is transferred from one oscilloscope or input channel to another. Connect the probe to the oscilloscope, apply a 1KHz square wave to the probe tip, or connect to the cal socket on the oscilloscope to display a few cycles of the waveform and adjust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



Specifications

Attenuation Ratio	10:1
Bandwidth	DC to 500MHz
Rise Time	0.7ns
Input Resistance	10M Ω when used with oscilloscopes which have 1M Ω input.
Input Capacitance	Approx. 8 pF
Compensation Range	8 to 18 pF
Max. Input Voltage	600V CAT I, 300V CAT II (DC + peak AC) derating with frequency(See Fig.1)
Operating Temperature	-10°C to +55°C
Humidity	85% RH or less (at 35°C)
Safety	Meets EN61010-031 CAT II
Cable Length	1.3 Meter

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