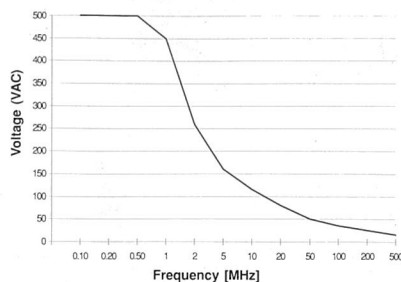


## TYPICAL VOLTAGE DERATING



## SAFETY INFORMATION

The probe is designed to be safe under the following conditions:

- Indoor use
- Altitude to 2000m
- Maximum relative humidity 80 % for temperatures up to 31 °C decreasing linearly to 40 % relative humidity at 50 °C

## WARNING

Do not disconnect probes while they are connected to a voltage source.

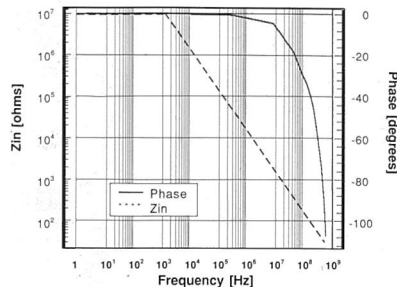
## CLEANING

The exterior of the probe only should be cleaned with a soft cloth moistened with either water or isopropyl alcohol.

## USAGE AND MAINTENANCE

The probe user should note that if the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

## TYPICAL INPUT IMPEDANCE



To guarantee accurate performance characteristics, mechanical shocks should be avoided, as well as damage to the cable through excessive bending. Handle with care, especially when the extra thin spring-tip is fitted.

All maintenance should be referred to qualified personnel.

## SALES & SERVICE:

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# LeCroy Probe PP005

**LeCroy**  
Innovators in Instrumentation



The PP005 is a high impedance passive probe with a range of probing accessories. The micro-fine tip of all PP005 probes is spring-loaded, reducing the chance of "skipping" the circuit once contact is established. Mechanical pressure is therefore reduced and probe life is enhanced. The micro-fine tip contributes to contact stability, in addition to making it easier to reach tightly placed circuitry.

500 V



CAT.I

## ELECTRICAL CHARACTERISTICS

Syst. Attenuation: 10X ± 1 %  
Syst. Input Resistance: 10 MΩ ± 1 %  
Input Capacitance: 11 pF ± 1 %  
Compensation Range: 10 pF to 20 pF  
System BW (-3dB): 500 MHz typical<sup>1</sup>  
Max. non-destructive  
Input voltage: 500 V (DC + peak AC) to 0.5 MHz  
See Voltage derating curve

<sup>1</sup> For 1 V to 100 V / div at the probe tip on 937X DSO family

## GENERAL CHARACTERISTICS

Operating temperature: 0 °C to 50 °C  
Cable length: 1.2 m  
Probe + Acc. Weight: 50 g + 150 g  
Coupling: 1 MΩ DC/AC

Safety Certification: Designed to comply IEC-1010, CAT I, Pollution Degree 1

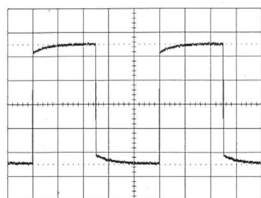


: Attention, refer to this manual before using the probe.



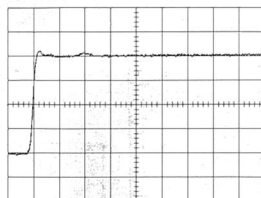
: Danger, High Voltage.

LF compensation is made by connecting the probe to the scope CAL connector and adjusting the compensation trimmer in the BNC-box for optimum square wave response.

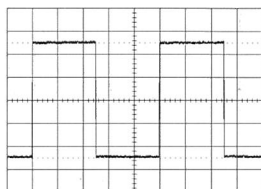


## HF PROBE ADJUSTMENT

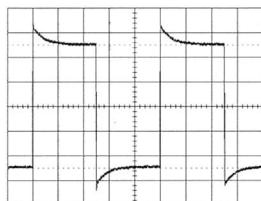
HF adjustment may be accomplished with a 300 ps risetime generator by trimming the two HF resistors' compensation (under the BNC-box black plastic cap) to optimize rise time and overshoot.



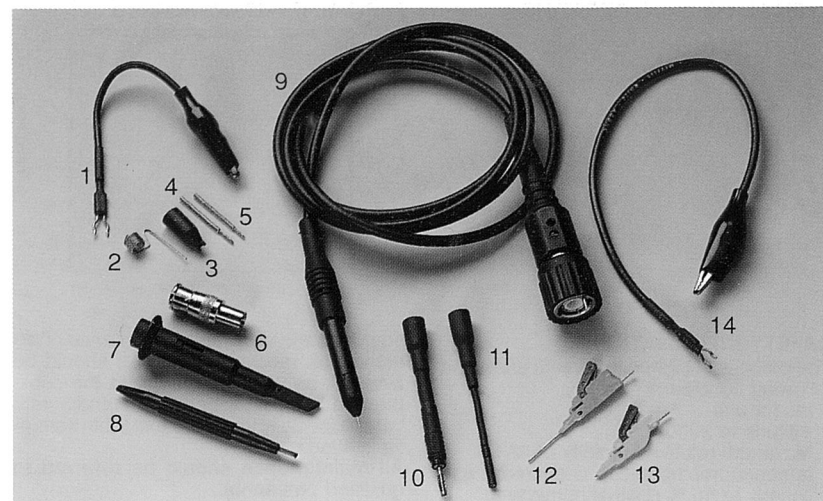
Sensitivity Ranges: [1 mV to 50 mV]



Sensitivity Ranges: [100 mV to 500 mV]



Sensitivity Ranges: [1V to 10V]



$\Delta$	$\Psi$	$\Sigma$
1		1
1		1
1		1
1		6
1		1
1		1
1		1
1		1
1		1
	1	
	1	

1. Ground lead 11 cm
2. Ground lead short on probe tip
3. IC insulating tip (black)
4. Spring tip 0.8 mm
5. Straight tip
6. BNC adapter
7. Sprung hook (black)
8. Trimmer tool
9. Probe
10. Flex adapter 2 mm plug
11. Contact lead for micro clip
12. QFPIC clip 130 mm 0.5 mm pitch

$\Delta$	$\Psi$	$\Sigma$
	1	
0		1
1		6
1		

13. QFPIC clip for 0.5 mm pitch
14. HF-compensation grnd lead  
Spring tip 0.38 mm  
10 piece silicone coding ring

Δ PP005    ψ PK101    Σ PK102

The interchangeability of the probe tips allows measurements to be made with ease and greatly improves the durability of this probe.

To change the cartridge (probe tip), use pliers to catch the cartridge.