

9 Specifications

NOMINAL CHARACTERISTICS

Nominal characteristics describe parameters and attributes that are guaranteed by design, but do not have associated tolerances.

Input Dynamic range	$\pm 8\text{ V}$
Maximum Input Voltage	40 V^1
Intended Output Load	$50\ \Omega$
Attenuation	$\div 10$
Output Connector	ProBus
Interface	ProBus
Oscilloscope Full Compatibility	LeCroy oscilloscope with firm-ware version 8.7.0 or higher

¹ Subject to input voltage vs. frequency derating. See figure 9-1.

WARRANTED CHARACTERISTICS

Warranted characteristics are parameters with guaranteed performance. Unless otherwise noted, tests are provided in the Performance Verification Procedure for all warranted specifications.

Low Frequency Attenuation Accuracy	$\pm 1\%$ plus uncertainty of $50\ \Omega$ termination
Output Zero	$\leq 8\text{ mV}$ referred to the input

TYPICAL CHARACTERISTICS

Typical characteristics are parameters with no guaranteed performance. Tests for typical characteristics are not provided in the Performance Verification Procedure.

Output Zero	$\leq 4\text{ mV}$, referred to the input
Bandwidth (Probe only)	1 GHz
Rise Time	$\leq 350\text{ ps}$
Input Capacitance	0.7 pF
DC Input Resistance	$100\text{ k}\Omega$

HFP1000 High Frequency Probe

ENVIRONMENTAL CHARACTERISTICS

Temperature, operating	0 °C to 50 °C
Temperature, non-operating	-40 °C to 71 °C
Relative Humidity	80% max up to 31 °C, decreasing linearly to 20% max at 50 °C

PHYSICAL CHARACTERISTICS

Probe Head Size:	
Length	61 mm (2.4 in)
Width	7.3 mm (0.29 in)
Height	13.1 mm (0.52 in)
Cable Length	1.3 m (51.1 in)
Weight:	
Probe only	100 g (3.5 oz.)
Shipping	0.85 kg(1.87 labs)
Input Sockets	Signal and ground sockets are compatible with 0.635 mm (0.025 in) square pins, and 0.91 mm (0.036 in) maximum diameter round pins

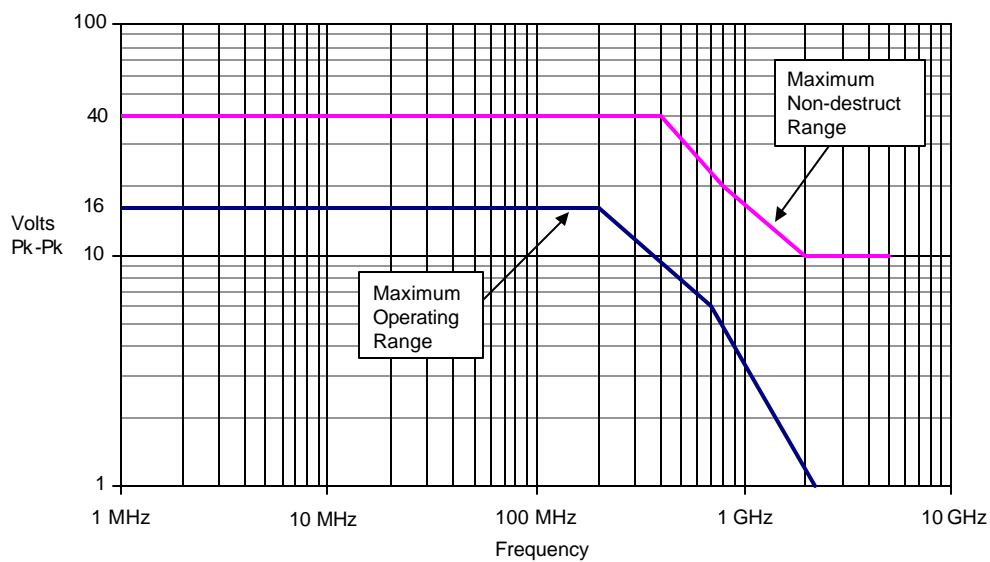


Figure 9-1. Input Voltage vs. Frequency

HFP1000 High Frequency Probe

COMPLIANCE AND CERTIFICATIONS

CE Declaration of Conformity



Low Voltage Directive: EN 61010-1:1993+Amd2:1995

Safety requirements for electrical equipment for measurement control and laboratory use.
Part 1: General requirements.

EN61010-2-031:1994

Particular requirements for hand-held probe assemblies for electrical measurement and test.

EMC Directive: EN 61326-1:1997+Amd1:1998

EMC requirements for electrical equipment for measurement control and laboratory use.

Electromagnetic Emissions: EN 55011:1998 Class A Radiated Emissions.

Electromagnetic Immunity: EN 61000-4-2:1995

Electrostatic Discharge.
(Air/Contact Discharge: 4 kV)

EN 61000-4-3:1996

RF Radiated Electromagnetic
Field (80 MHz...1 GHz; 3 V/m)

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