

9 Specifications

NOMINAL CHARACTERISTICS

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

Input Dynamic range	± 8 V
Offset Range	± 12 V ¹
Maximum Input Voltage	40 V pk
Attenuation	$\div 10$
Output Connector	ProBus
Interface	ProBus
Oscilloscope Full Compatibility	LeCroy oscilloscope with firmware 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 Ω termination
Output Zero	≤ 8 mV, referred to the input
Offset Accuracy	$\pm 1\% \pm$ Output Zero error, 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	≤ 4 mV, referred to the input
Bandwidth (Probe only)	2.5 GHz

HFP2500 High Frequency Probe

Rise Time	140 ps
Input Capacitance	0.7 pF
DC Input Resistance	100 k Ω

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	1.45 kg (3.19 lbs)
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

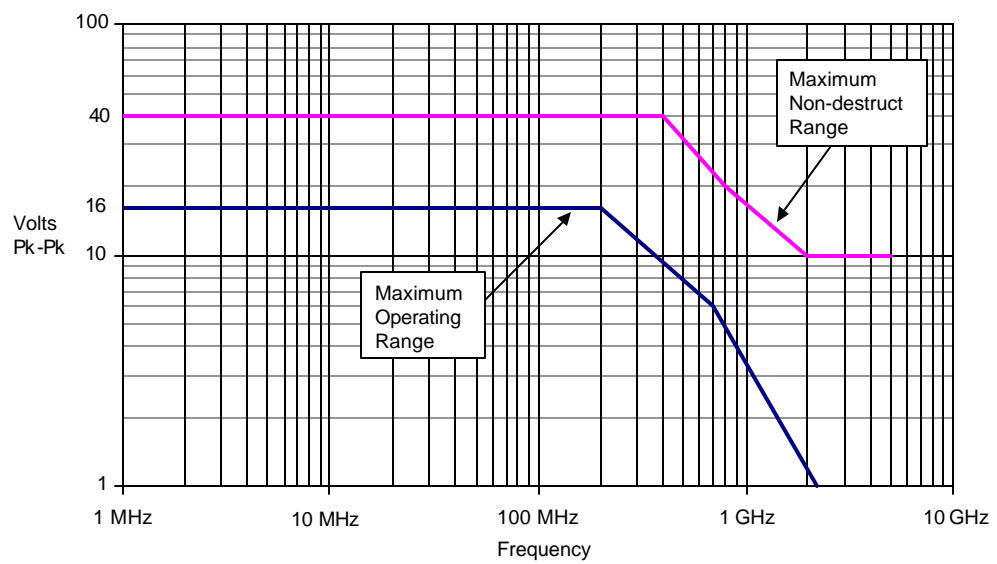


Figure 9-1. Input Voltage vs. Frequency

HFP2500 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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