

High Voltage Passive Probe HV-P30A, HV-P60A



HV-P30A



HV-P60A

Model	Attenuation	Input RC		System Bandwidth [MHz] (-3dB)	Cable Length [m]	Comp. Range [pF]	Max. Input Voltage [kV]	
		R [MΩ]	C [pF]				DC voltage	Max. frequency band
HV-P30A	1000:1	100	<7	50	3.0	15 – 50	30	40
HV-P60A	2000:1	1,000	<7	50	4.0	20 – 50	60	80

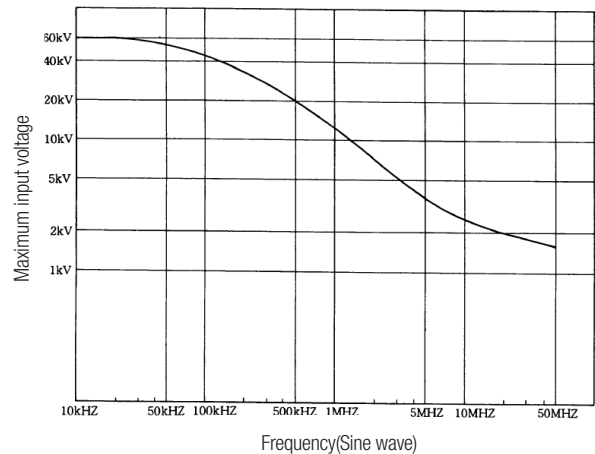
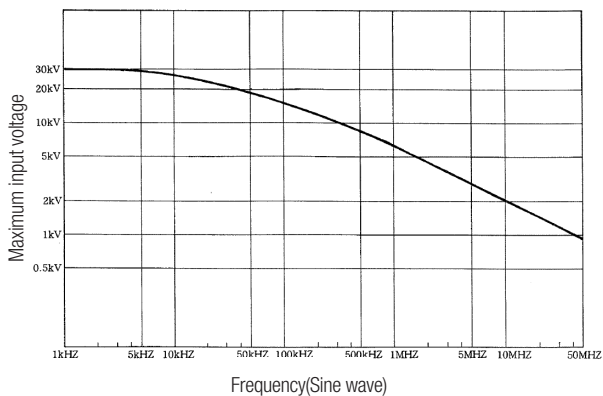
HV-P30A

HV-P60A

Appearance



Maximum input voltage vs. Frequency(Sine wave)



Specifications

Maximum input voltage	
DC	30 kV
Continuous wave (sine wave)	Refer to "Figure 7 Maximum input voltage and frequency" on next page.
Single-shot pulse	40 kV (Standard pulse wave: 1×40 μs)
Frequency bandwidth	DC to 50 MHz (-3dB)
Rise time	7 ns or less [Note] Rise time Tr is a calculation value from the next expression. Tr [ns] = 350 / Band width [MHz]
Attenuation ratio	1000 : 1 ± 5 %
Waveform distortion	±5 % (10 °C to 35 °C) [Note] Ringing and Overshoot are excluded.
Input RC	
R	100 MΩ ± 5 %
C	7 pF or less
Output cable	Approx. 3 m
Connector type	BNC type
Input RC of oscilloscope that can be connected	
R	1MΩ
C	10 pF to 40 pF
Dimensions	Refer to 5.2 Appearance.
Weight	
Probe body	Approx. 1.3 kg [Note] Output cable and Matching box are included.
Whole	Approx. 2.5 kg [Note] Accessories are included.
Environmental condition	
Operating temperature range	-10°C to + 50°C
Storage temperature range	-10°C to + 50°C

Maximum input voltage	
DC	60 kV
Continuous wave (sine wave)	Refer to "Figure 7 Maximum input voltage and frequency" on next page.
Single-shot pulse	80 kV (Standard pulse wave: 1×40 μs)
Frequency bandwidth	DC to 50 MHz (-3dB)
Rise time	7 ns or less [Note] Rise time Tr is a calculation value from the next expression. Tr [ns] = 350 / Band width [MHz]
Attenuation ratio	2000 : 1 ± 5 %
Waveform distortion	±5 % (10 °C to 35 °C) [Note] Ringing and Overshoot are excluded.
Input RC	
R	1000 MΩ ± 5 %
C	5 pF ± 2 pF
Output cable	Approx. 4 m
Connector type	BNC type
Input RC of oscilloscope that can be connected	
R	1MΩ
C	10 pF to 40 pF
Dimensions	Refer to 5.2 Appearance.
Weight	
Probe body	Approx. 2.0 kg [Note] Output cable and Matching box are included.
Whole	Approx. 3.2 kg [Note] Accessories are included.
Environmental condition	
Operating temperature range	-10°C to + 50°C
Storage temperature range	-10°C to + 50°C

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