

High Voltage Passive Probe HV-P30A, HV-P60A



HV-P30A



HV-P60A

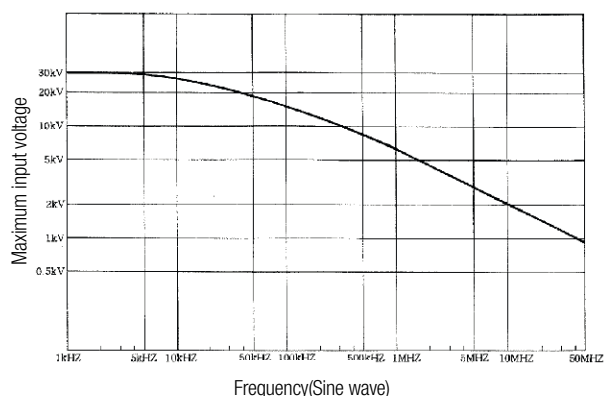
Model	Attenuation	Input RC		System Bandwidth [MHz] (-3dB)	Cable Length [m]	Comp. Range [pF]	Max. Input Voltage [kV]	
		R [MΩ]	C [pF]				DC voltage	Max. frequency band
HV-P30A	1000:1	100	< 7	50	3.0	15 – 50	30	40
HV-P60A	2000:1	1,000	< 7	50	4.0	20 – 50	60	80

HV-P30A

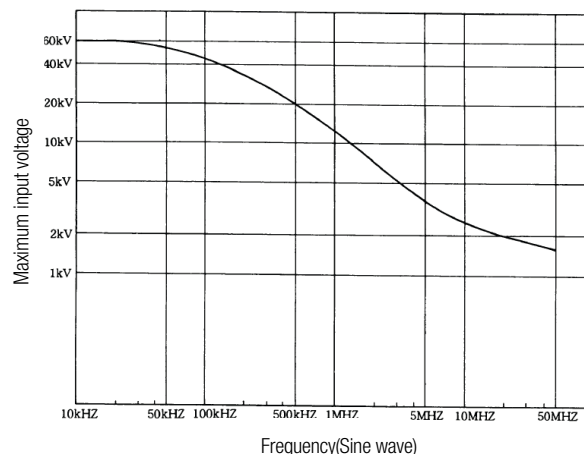
Appearance



Maximum input voltage vs. Frequency(Sine wave)



HV-P60A



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. $Tr [ns] = 350 / \text{Band width [MHz]}$
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. $Tr [ns] = 350 / \text{Band width [MHz]}$
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