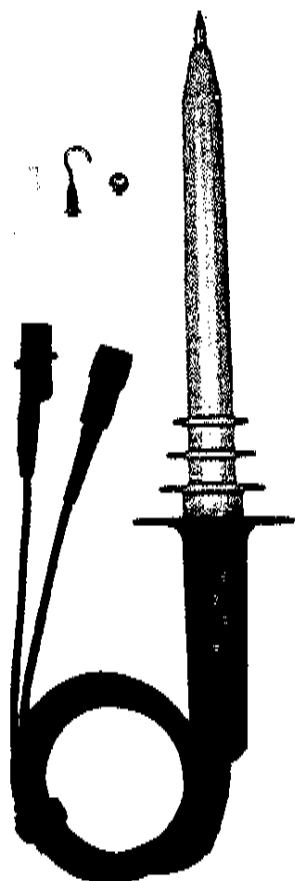


RIGOL®

用户手册
User's Guide



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RP1050H高压示波器探头

High Voltage Probe for Oscilloscope



Safety Precautions

This high voltage probe must only be operated by personnel who are trained, experienced, or otherwise qualified to recognize hazardous situations and who trained the safety precautions that necessary to avoid possible injuries when using such a device.

Do not work alone under the high voltage circuits.

For your own safety, inspect the probe for cracks and frayed or broken leads before each use. If defects are noted, DO NOT USE the probe.

Hands, shoes, floor and work bench must be dry. Do not make any measurement under humid, damp or other situations that might affect the measurement safety.

If possible, do always turn off the high voltage source before you connect or disconnect the probe.

The probe body should be kept clean and free of any conductive contamination.

Operation

Connect the divider probe common lead (alligator clip) to a good earth ground or reliable ground.

Connect the BNC connector to the BNC input of your oscilloscope.

Select a desired range for your oscilloscope. Whenever possible, turn the high voltage source off before making any connections.

Warning

Do not attempt to take measurements from sources when the chassis or return lead is not ground.

This ground connection is critical to the safety operation of the probe. Failure to make this connection may result in personal injuries or damages to the probe or voltmeter. This connection must be made before the probe tip comes into contact with the high voltage and must not be removed until after the probe tip has been removed.

Do not connect the ground clip to the high voltage source or the probe tip to the ground for any reason.

BEFORE turning the high voltage on, make sure that no part of your body is in contact with the device.

Remembering that the voltage being measured is 1000 times greater than the voltmeter reading.

When the measuring voltage are DC 8 to 15 KV, or AC rms 5 to 10 KV or AC peak 20 to 30 KV, do not exceed 60 sec. on each measurement. Otherwise will caused to the probe over heat or damage. Disconnect the probe tip from the high voltage source **BEFORE removing the ground clip lead.**

Cleaning

Clean only the exterior probe body and cables. Use a soft cotton cloth lightly moistened with a mild solution of detergent and water. Do not submerge any portion of the probe at any time.

Dry the probe thoroughly before any voltage measurement.

Make sure the probe is free from any solvents or solvent fumes as these can case deterioration to the probe body and cables.

性能指标 (Specifications)

最大工作电压	Max. Working Voltage	DC: 0 ~ 15 KV DC AC: pulse \leq 30 KV peak to peak AC: sine wave \leq 10 KV rms	
信噪比	Signal/Noise	DC \geq 60 dB (1 KHz), \geq 50 dB (1 MHz)	
带宽	Bandwidth	DC ~50 MHz (-3 dB)	
衰减比例	Division Ratio	1:1000	
上升时间	Rise Time	\leq 7 ns	
输入阻抗	Input Impedance	100 M Ω \pm 0.5%	
输入电容	Input Capacitance	3.0 pF \pm 0.5 pF	
补偿范围	Compensation Range	5 pF ~ 50 pF	
线长度	Cable Length	2.0 meter (\pm 0.2 m)	
温度系数	Temperature Coefficient	\leq 200 ppm / $^{\circ}$ C	
精确度	Accuracy	DC	\pm 1% (DC ~ 10 KV) \pm 2% (10 KV ~ 15 KV)
		AC	\pm 1% (1 KHz/1 KV) -3dB 50 MHz
安全认证	Safety App.	CE, GS, UL, CUL	
操作温度	Operating Temperature	0 ~ 50 $^{\circ}$ C	
存储温度	Storage Temperature	-20 ~ 70 $^{\circ}$ C	
重量/尺寸	Weight / Dimension	250 g / Φ 75 x 340 L (mm)	



当测量电压为下述情况时，
每次测量时间不得超过60s。

直流：8 ~ 15 KV
交流 有效值：5 ~ 10 KV
交流 峰值：20 ~ 30 KV

When the measuring voltage is under
the followings. Each measurement
should be within 60 sec.

DC: 8 ~ 15 KV
AC RMS: 5 ~ 10 KV
AC PEAK: 20 ~ 30 KV

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