

Sapphire Instruments Co., Ltd.

Specifications of SI-9010

Specifications

Bandwidth	DC to 70MHz (-3dB)
Attenuation	1:100/1000
Accuracy	±2%
Rise Time	<5ns
Input Impedance	10MΩ//10pF each side to ground
Input Voltage	
- Differential Range	±700V(DC+Peak AC) or 500Vrms @1/100 ±7000V(DC+Peak AC) or 5000Vrms @1/1000
- Common Mode Range	±7000V(DC+Peak AC) or 2500Vrms @1/100 & 1/1000
- Absolute Max. Voltage	±7000V(DC+Peak AC) or 2500Vrms @1/100 & 1/1000 in common mode ±7000V(DC+Peak AC) or 5000Vrms @1/100 &1/1000 in differential mode
Output Voltage	
- Swing	±7V (into 50kΩ load)
- Offset (typical)	<±5mV
- Noise (typical)	0.9mVrms
- Source Impedance (typical)	50Ω (for using 1MΩ input system oscilloscope)
CMRR (typical)	-80dB@50Hz, -60dB@20kHz
Ambient Operating Temperature	-10 to 40
Ambient Storage Temperature	-30 to 70
Ambient Operating Humidity	25 to 85% RH
Ambient Storage Humidity	25 to 85% RH
Power Requirements*	
- Standard	4xAA cells
- Options	Power leads, Mains adaptor* (6VDC/200mA or regulated 9VDC/120mA), USB power cord
Length of BNC Cable	90cm
Length of Input Leads	60cm
Weight	500gms
Dimension (LxWxH)	202mmx83mmx38mm

* a. The supplied voltage must be less than 12V and greater than 4.4V, otherwise the probe could be damaged or can't operated properly.

- b. Polarity is “+” inside and “-” outside. For wrong polarity, built-in circuit protects the probe, no danger or damage will occur.
- c. When the voltage of the cells become too low, the power indicator on the panel will flicker.