

# Sapphire Instruments Co., Ltd.

## Specifications of SI-9101

### Specifications

Bandwidth	DC to 100MHz (-3dB)
Attenuation	1:10/100
Accuracy	±2%
Rise Time	3.5ns
Input Impedance	4M //7pF each side to ground
Input Voltage	
- Differential Range	±70V (DC + Peak AC) or 70Vrms @1/10 ±700V (DC + Peak AC) or 500Vrms @1/100
- Common Mode Range	±700V (DC + Peak AC) or 500Vrms @1/10 & 1/100
- Absolute Max. Voltage (Differential or Common Mode)	1000Vrms CAT III @ 1/10 & 1/100
Output Voltage	
- Swing	±7V (into 50kΩ load)
- Offset (typical)	<±5mV
- Noise (typical)	0.9mVrms
- Source Impedance (typical)	50 (for using 1MΩ input system oscilloscope)
CMRR (typical)	-85dB@50Hz; -55dB@1MHz
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	95cm
Length of Input Leads	30cm
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 not be operated properly.
- b. Polarity is “+” inside and “-” outside. For wrong polarity, the probe is protected by built-in circuit, no danger or damage will occur.

c. When the voltage of the cells become too low, the power indicator on the panel will flicker.