

Sapphire Instruments Co., Ltd.

Specifications of SI-9110

Specifications

Bandwidth	DC to 100MHz (-3dB)
Attenuation ratio	1:100/1000
Accuracy	±2%
Rise Time	3.5ns
Input Impedance	4M //7pF each side to ground
Input Voltage	
- Differential Range	±140V(DC + Peak AC) or 140Vrms @ 1/100 ±1400V(DC + Peak AC) or 1000Vrms @ 1/1000
- Common Mode Range	±1400V(DC + Peak AC) or 1000Vrms @1/100 & 1/1000
- Absolute Max. Voltage (Differential or Common Mode)	±1400V(DC + Peak AC) or 1000Vrms CAT @1/100 & 1/1000
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)	-80dB @ 60Hz; -50dB @ 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
- Option	Power leads, Mains adaptor*(6VDC/200mA regulated 9VDC/120mA), USB power cord
Length of Input Leads	30cm
Length of BNC Lead	95cm
Weight	500gms
Dimension (LxWxH)	207mm x 83mm x 38mm

- * 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.