

# Sapphire Instruments Co., Ltd.

## Specifications of SI-800

### Specifications

Bandwidth	DC to 800MHz (-3dB)
Attenuation Ratio	1/10
Accuracy	±2%
Rise Time	0.4375ns
Input Impedance	100k //2pF each side to ground
Input Voltage*	
- Differential Range	±15V (DC+peakAC)
- Common Mode Range	±30V (DC+peakAC)
- Absolute Max. Voltage (either input to ground)	±40V (DC+peakAC)
Output Voltage	
- Swing	±1.5V (into 50Ω load)
- Offset (typical)	<±5mV
- Noise (typical)	0.3mVrms
- Source Impedance (typical)	50Ω (for using 50Ω input system oscilloscope)
CMRR (typical)	60dB @60Hz, 15dB @500MHZ
Power Requirements	Regulated 15VDC/100mA mains adaptor
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
Length of BNC Cable	120cm
Length of Input Leads	50cm
Weight	130gms
Dimensions (LxWxH)	111mm x 22mm x 14mm

\* Voltage limit is the lesser of the DC+Peak AC and RMS values..

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- The supplied voltage must be less than 16V and greater than 3.3V, otherwise the probe could be damaged or can't be operated properly.
  - For wrong polarity of power sources, a built-in circuit will protect the probe and no danger or damage will occur.
  - When the voltage of the cells become too low, the power indicator on the panel will change its color and then distinguish.