Sapphire Instruments Co., Ltd.

Specifications of LDP-51

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Bandwidth	DC to 50MHz (-3dB)
Attenuation Ratio	1/100
Accuracy	±1%
Rise Time	<7ns
Input Impedance	4MΩ//7pF each side to ground
Input Voltage	
- Differential Range	±700V(DC+Peak AC) or 600Vrms
- Common Mode Range	±1400V(DC+Peak AC) or 600Vrms
- Absolute Max. Voltage (either input to ground)	±1400V(DC+Peak AC) or 600Vrms CAT II
Output Voltage	
- Swing	±7V(into 5kΩ load)
- Offset (typical)	<±1mV
- Noise (typical)	0.3mVrms
- Source Impedance (typical)	50Ω (for using 1MΩ input system oscilloscope)
CMRR (typical)	-90dB @60Hz, -55dB @1MHz
Power Requirements*	
- Options	Power leads, Mains adaptor*(6VDC/90mA or regulated 9VDC/70mA), USB power cord Removable battery pack (4xAA cells)
Optional Extension Plugs for Mains Adaptor	
- Input	One jack of 1A current rating.
- Output	Three plugs of 1A current rating.
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	125cm
Length of Input Leads	50cm
Weight	300gms
Dimensions (LxWxH)	111mm x 22mm x 14mm

* a. 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.

b. For wrong polarity of power sources, a built-in circuit will protect the probe and no danger or damage will occur.

c. When the voltage of the cells become too low, the power indicator on the panel will dim and then distinguish.