

SI-9002

Differential Probes



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Features:

- Up to +/- 1400V(DC+Peak AC) Differential and common Mode
- Safety Certified
- Economical Cost

Applications:

- Switching Power Supply Design
- Motor Drive Design
- Electronic Ballast Design
- CRT Display Design

Specifications

| | |
|---|---|
| Bandwidth | DC to 25MHz (-3dB) |
| Attenuation Ratio | 1:20/200 |
| Accuracy | +/- 2% |
| Rise Time | 14ns |
| Input Impedance | 4Mohm//5.5pF each side to ground |
| Input Voltage | |
| -Differential Range | +/- 140V(DC+Peak AC) or 140Vrms @ 1/20 +/-1400V(DC+Peak AC) or 1000Vrms @1/200 |
| -Common Mode Range | +/-1400V(DC+Peak AC) or 1000Vrms @1/20 & 1/200 |
| -Absolute Max. Voltage (Differential or Common Mode) | +/-1400V(DC+Peak AC) or 1000Vrms CAT III @1/20 & 1/200 |
| Output Voltage | |
| - Swing | +/-7V (into 50kohm load) |
| -Offset (typical) | <+/-5mV |
| -Noise (typical) | 0.7mVrms |
| -Source Impedance (typical) | 50 ohm (for using 1Mohm input system oscilloscope) |
| CMRR (typical) | -80dB @50Hz, -60dB @20kHz |
| Ambient Operating Temperature | -10 to 40 degree centigrade |
| Ambient Storage Temperature | -30 to 70 degree centigrade |
| 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/60mA or regulated 9VDC/40mA), USB power cord |
| Length of BNC Cable | 95cm |
| length of Input Leads | 45cm |
| Weight | 400gms (probe and PVC jacket) |
| Dimension(LxWxH) | 170mm x 63mm x 21mm |

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