

Accessory for DL9000 Series Digital Oscilloscopes

PBD2000 (701923)

2.0 GHz Differential Probe

Differential probes are indispensable for measuring high speed differential signals such as LVDS. Use of the PBD2000, with DL9000 series oscilloscopes, provides 1.0GHz or 1.5GHz system bandwidth for differential measurements. The probe's small head size makes it easy to probe small points on a circuit.

Differential probes with high common mode rejection enable high-fidelity signal observation.



2.0 GHz bandwidth differential probe

Standard Accessories (9 items)

| | | | |
|-----------------------|-----|---------------------|-----|
| Spring pin (straight) | x 4 | Spring pin (angle) | x 4 |
| Pin (straight) | x 8 | Pin (angle) | x 8 |
| Pin (L shape) | x 2 | Micro Clip (black) | x 1 |
| Micro Clip (red) | x 1 | Single lead (black) | x 1 |
| Single lead (red) | x 1 | | |

| Model | Description |
|--------|---------------------------|
| 701923 | 2.0GHz differential probe |
| 701915 | Browser attachments |

701915 Browser attachments (9 items)

| | |
|-----------------------|------|
| Spring pin (straight) | x 4 |
| Spring pin (angle) | x 4 |
| Pin (straight) | x 20 |
| Pin (angle) | x 20 |
| Pin (L shape) | x 2 |
| Micro Clip (black) | x 1 |
| Micro Clip (red) | x 1 |
| Single lead (black) | x 1 |
| Single lead (red) | x 1 |



Electrical Specifications

| | |
|----------------------------------|---|
| Frequency Bandwidth: | 2.0 GHz (-3 dB) |
| Attenuation Ratio*1: | 10 : 1 ±2% or less (excluding error contribution from oscilloscope) |
| Input Resistance: | 50kΩ ±2% or less (against GND level from each input terminal) |
| Input Capacitance: | approx. 1.1 pF (typical; against GND level from each input terminal) |
| Max. operational input voltage: | +/- 7V |
| Max. differential input voltage: | +/- 5V |
| Residual noise: | +/- 500uVrms or less (typical) |
| Residual offset voltage*2: | +/- 10mV or less (typical) (offset is user-adjustable) |
| CMRR: | -35dB or less @ DC-10MHz -20dB or less @ 10MHz-100MHz -12dB or less @ 100MHz-1GHz |

*1): excluding residual offset level
*2): Short circuit at the tip or 0V input
Typical value - Not warranted

Mechanical Characteristics

| | |
|----------------------|---------------------|
| Weight (probe only): | Approximately 80 g |
| Cable Length: | Approximately 1.2 m |