DL/DLM Series Oscilloscope Accessory

YOKOGAWA

PBDH0150 (701927)

150 MHz Bandwidth / High-Voltage Differential Probe

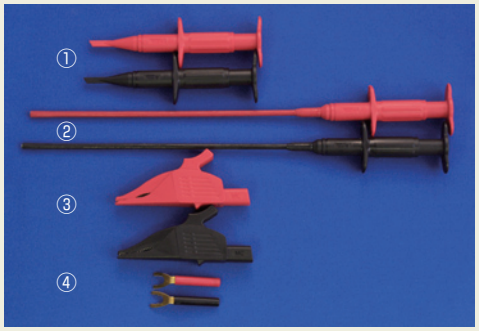
Easily perform floating and differential voltage measurements in today's challenging power electronics and mechatronic applications

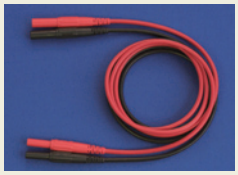
Probe Tip Versatility:

Supports a wide variety of optional 4 mm safety adapters.(*3)

① Standard Pincher Tips (included)
② 701906 Long Test Clips
③ 701954 Alligator Clips (Dolphin type)
④ 758921 Fork Terminal Adapters

And others.





1 m extension lead set (included)

(*3) Bandwidth and Maximum Input Voltage specifications can be degraded when using adapters. Please refer to the instruction manual for detailed information.

Features:

Max. 1400 Vpeak, 150 MHz Bandwidth

- 1400 Vpeak capability is suitable for un-grounded and floating voltage measurements in power electronics and mechatronics applications including inverters, motor drives, and power supplies.
- Extended 150 MHz bandwidth supports most modern high-voltage applications.

1 meter Extension Lead Set

- 1 m long extension lead pair is included as a standard accessory. (*1)
- Enables flexible probing in various situation such as environmental chamber measurements.
- Excellent bandwidth is maintained when using the extended lead set (100 MHz bandwidth, typical).
- Designed with consideration for ringing control.

Compact Design

- Reduced size and weight over comparable probes (50% reduced volume over the Yokogawa 700924).
- Stackable design preserves valuable bench-top space in multi-channel applications.

Automatic Attenuation Detection and Integral Probe Power Connector

- Switchable attenuation ratio (50:1 and 500:1) supports a wide range of voltage measurements.
- Oscilloscope attenuation ratio auto-detection is supported, reducing human error. (*2)
- Integral probe power connector eliminates power cable tangles in multi-channel applications.

Exchangeable Pincher Tips

- Standard pincher tips are exchangeable a wide variety of 4mm safety adapters (sold separately).

(*1) Bandwidth specification is 100 MHz (-3 dB, Typical) when using the extension lead.

(*2) Some models and firmware versions do not support attenuation auto-detection of the flip-switch after connecting probe.

LF 701927-01EN

DL/DLM Series Accessory
High Voltage Differential Probe

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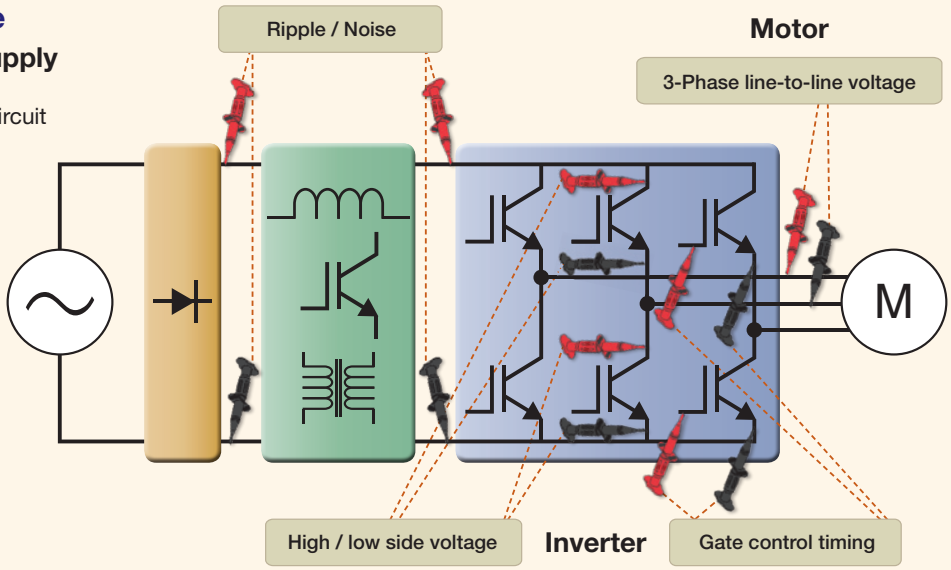
Enables single-ended oscilloscopes to safely perform floating-voltage measurements

● **Example**

Power supply
PFC
Switching circuit



Probe Model

Name	Model
PBDH0150 Differential Probe	701927

Standard contents

- Probe
- Pincher Tip
- Extension Lead (1 meter)
- 100 Ω Resistor Adapter (When not using extension lead)
- 150 Ω Resistor Adapter (When using extension lead)

Applicable models

- **Yokogawa DL/DLM Series with Probe Interface including the following models:** DLM2000, DLM4000, DL/DLM6000, DL9000, SB5000 series
  (Auto detection, power supply. Some restrictions depending on model.)

Specifications

- Bandwidth DC to 150 MHz (-3 dB)
- Bandwidth w/ Extension Lead DC to 100 MHz (-3 dB, Typical)
- Input Type Balanced Differential Input
- Attenuation Ratio 50:1, 500:1 - Switchable
- Input Resistance / Capacitance (Typical)
  4 MΩ + 5 pF (to ground)
- Allowable Differential Voltage
  500:1 ±1400 V (DC+ACpeak)
  50:1 ±140 V (DC+ACpeak)
- Allowable Common-Mode Voltage
  ±1400 V (DC+ACpeak) or 1000 Vrms
- Maximum Input voltage (to ground)
  ±1400 V (DC+ACpeak) or 1000 Vrms, CAT II
- CMRR (Typical) -80 dB @ 60 Hz, -50 dB @ 1 MHz
- Output Impedance Used on a 1 MΩ Input Oscilloscope
- Noise (Conversion to input, typical)
  50 mVrms(50:1), 300 mVrms(500:1)
- DC Gain Accuracy
  ±2% (Common-Mode Voltage ≦ 400 V and ≧ -400 V)
  ±3% (Common-Mode Voltage ≦ 1000 V and ≧ -1000 V)

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