

# High-Voltage Differential Probe

DP series



\*Image for reference only. Product subject to change.



**Micsig** Shenzhen Micsig Technology Co., Ltd.

Tel: +86-(0)755-88600880 Email: sales@micsig.com Website: www.micsig.com

Add: 6F, Jinhuanyu Building, No. 56, Tiezai Rd, Bao'an District, Shenzhen, Guangdong, China.

## Product Overview

Micsig DP Series High-Voltage Differential Probe offers a bandwidth of 100-300 MHz and a maximum input voltage of 7000 Vpk. With a standard BNC interface, they are compatible with oscilloscopes of most brands.

Features include one-button calibration, overload alarm, range power-off memory, dual voltage ranges, and a high-resistance, low-capacitance design to minimize loading. The probe delivers strong amplitude-frequency performance, and a high common-mode rejection ratio.

Command-based programming enables automated testing. 5 MHz bandwidth-limit function helps suppress high-frequency noise, delivering clearer waveforms.

## Product Features



### Command & Programming Control

The Type-C interface supports data communication, enabling connection to a computer for command control.



### 5MHz Bandwidth Limit

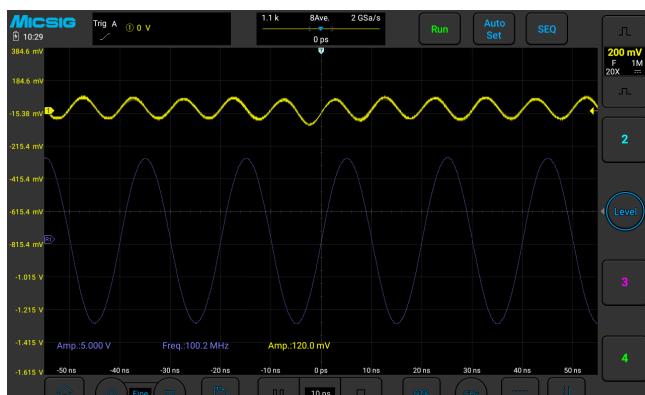
Ideal for measuring switching frequencies of FETs in most power supply applications, effectively filtering out high-frequency noise and interference.

### Dual Range Selection

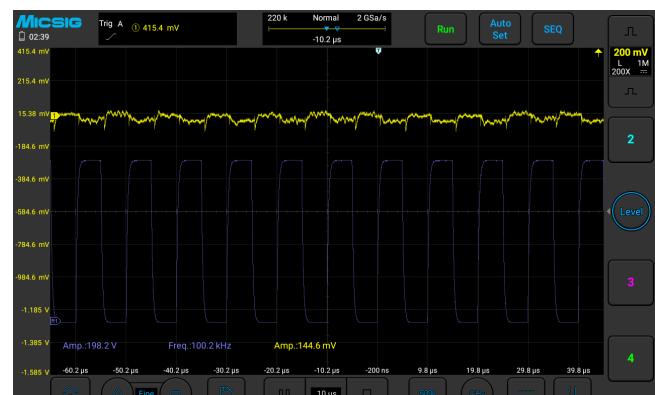
One-button auto zero calibration and flexible dual-range switching, improving signal-to-noise ratio.

## Higher Accuracy and CMRR

DP series has high input impedance and low input capacitance, minimized load effect, greatly improved the accuracy of the differential signal. High common mode rejection capability, able to meet floating measurements of high common mode voltage at high frequencies.



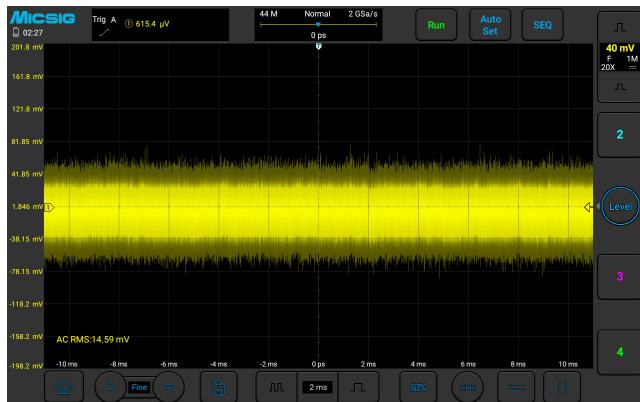
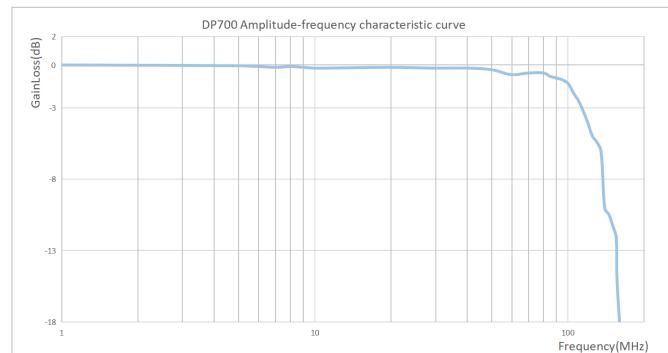
DP700, @100MHz, 5V, output common mode signal amplitude 120mV, CMRR is -32dB



DP700, @100KHz, 198.2V, output common mode signal amplitude 144.6mV, CMRR > -62dB

## Excellent Amplitude Frequency Characteristics

DP series features excellent bandwidth flatness. Within 100 MHz bandwidth, the gain/loss variation is small. It maintains the accuracy of signal test even in high-frequency bandwidth.



## Lower Noise Floor

The extremely low noise floor enhances the sensitivity of measurement and can accurately measure small signal changes.

## Specifications

Model	DP700	DP702	DP703	DP1500	DP1502	DP1503	DP3000	DP3002	DP3003	DP7000	DP7002	DP7003
Bandwidth	100MHz	200MHz	300MHz	100MHz	200MHz	300MHz	100MHz	200MHz	300MHz	100MHz	200MHz	300MHz
Max. input differential voltage (DC+AC PK)	70V (20X) 700V (200X)			150V (50X) 1500V (500X)			300V (100X) 3000V (1000X)			700V (100X) 7000V (1000X)		
Noise	Full bandwidth: 20X: ≤ 20mVrms 200X: ≤ 90mVrms			Full bandwidth: 50X: ≤ 50mVrms 500X: ≤ 200mVrms			Full bandwidth: 100X: ≤ 100mVrms 1000X: ≤ 500mVrms			Full bandwidth: 100X: ≤ 200mVrms 1000X: ≤ 600mVrms		
CMRR	DC : >-80dB 100kHz: >-60dB 10MHz: >-30dB 100MHz: >-26dB			DC : >-80dB 100kHz: >-60dB 10MHz: >-30dB 100MHz: >-26dB			DC : >-80dB 100kHz: >-60dB 10MHz: >-30dB 100MHz: >-26dB			DC : >-80dB 100kHz: >-60dB 10MHz: >-30dB 100MHz: >-26dB		
Delay time	11.7ns (20X) 11.7ns (200X)			12.5ns (50X) 12.1ns (500X)			11.7ns (100X) 11.5ns (1000X)			12.5ns(100X) 12.5ns(1000X)		
Input impedance	6MΩ/1.67pF (differential) 3MΩ/3.3pF (each input to ground)			13.2MΩ/1.67pF (differential) 6.6MΩ/3.3pF (each input to ground)			30MΩ/0.78pF (differential) 15MΩ/1.57pF (each input to ground)			120MΩ/0.78pF (differential) 60MΩ/1.57pF (each input to ground)		

Parameters	
Accuracy (Typical)	±2% (Customizable 1% accuracy)
Power supply	DC 5V
Overload indication	LED flash, buzzer
Dimension	L: 13.5cm W: 5cm H: 2.5cm
Input cable length	31cm
Output cable length	100cm
Temperature	Working: 0°C ~ 40 °C Non-working: -30 °C ~ 70 °C
Humidity	Working: 5 ~ 85% RH ( 0°C ~ 40 °C ) Non-working: 5% ~ 85% RH ( ≤ 40 °C ); 5% ~ 45% RH (40 °C ~70 °C )

## Standard Accessories

Model	Standard Accessories
High Voltage Differential Probe DP Series	Main unit*1
	Extendable Hook Pliers*1 Pair
	Alligator Clips*1 Pair
	Input Extension Cables*1 Pair
	Power adapter*1
	BNC Output Lin*1
	USB Line*1
	Quick Guide*1

### Optional Accessories

Explosion-Proof Enclosure for Probes

Shock-Resistant, Vibration-Resistant, Crush-Resistant, Dustproof, Moisture-Proof



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