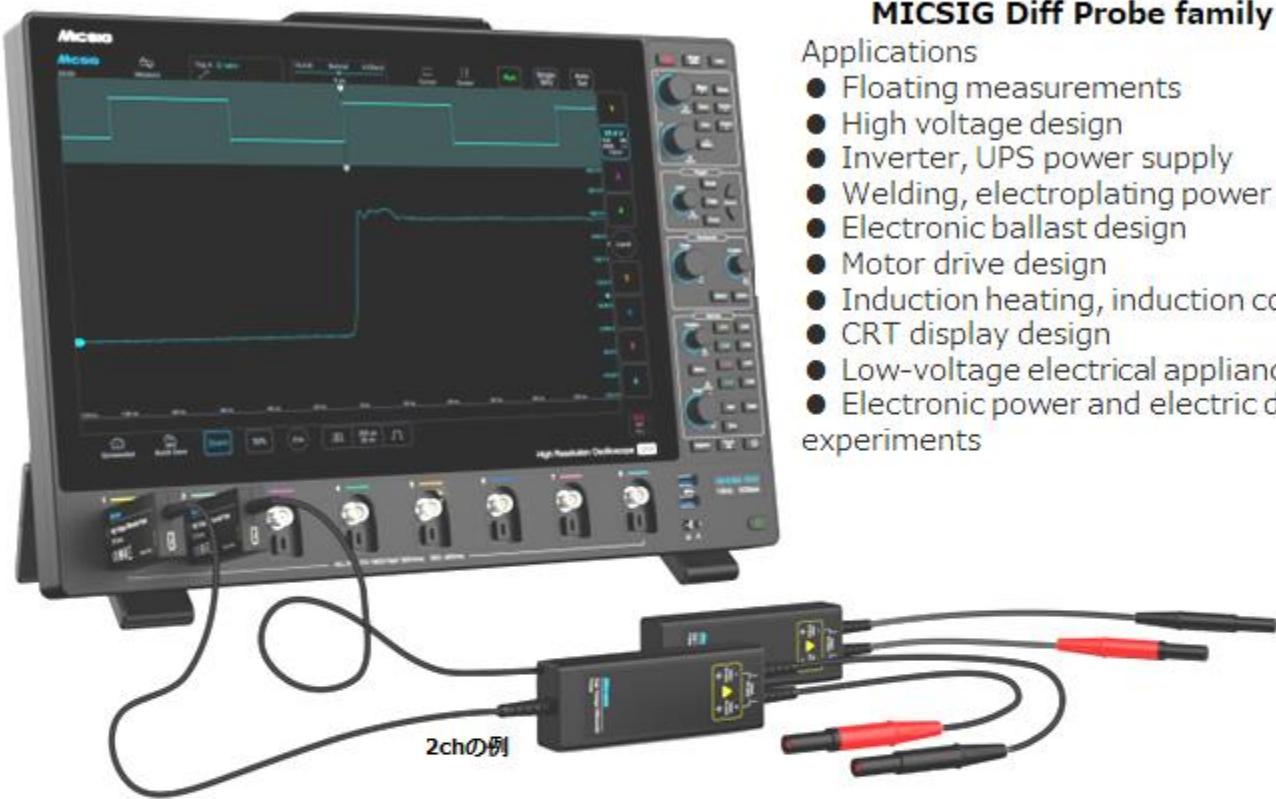


Micsig DPシリーズ高電圧差動プローブは、100MHz～500MHzの範囲で選択可能な帯域幅と、最大差動入力電圧7000Vpkを提供します。標準BNCインターフェースにより、すべての主要オシロスコープブランドとの互換性が確保されています。内蔵の金属シールドにより、耐干渉性能が向上しています。わずか2cmの薄型設計により、作業スペースを節約し、ワンクリックの自動ゼロ調整機能により迅速なセットアップが可能です。その他の機能として、過負荷保護アラームと電源オフメモリがあり、シームレスな操作を実現します。超低ノイズフロア（最低5mVrms）とデュアルレンジ設計により、異なる電圧レベルにわたって信号対雑音比（S/N比）が最適化されます。高インピーダンス入力と低入力容量により、負荷の影響が最小限に抑えられ、±2%の測定精度と優れた同相除去比（CMRR）を実現します。5MHzの帯域幅制限により高周波ノイズが低減され、正確で高速な差動電圧測定が可能になります。EV電源システム、太陽光発電インバータ、スイッチング電源、フローティングまたは絶縁された高電圧信号テストに最適です。



MICSIG Diff Probe family

Applications

- Floating measurements
- High voltage design
- Inverter, UPS power supply
- Welding, electroplating power supply
- Electronic ballast design
- Motor drive design
- Induction heating, induction cooker
- CRT display design
- Low-voltage electrical appliances
- Electronic power and electric drive experiments

DP Series

High Voltage Differential Probe

Bandwidth

100MHz-500MHz

Ultra-small

Only 2cm thick

CMRR

> -80dB

Differential voltage

700Vpk-7000Vpk

Low Noise

≤ 5mVrms

Interface

BNC

KTEK (販売店: ケイテック)

*DP700/1000 with 5MHz bandwidth limit

Work with any oscilloscope



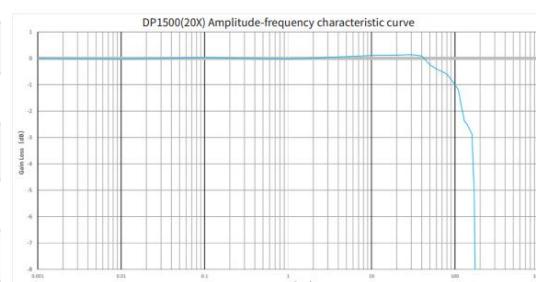
お問い合わせ: ktekinfo@ktek.jp
WEB-TOP <https://ktek.jp>

Standard Accessories

| Model | Standard Accessories |
|--|------------------------------|
| High Voltage Differential Probe DP Series <small>ACアダプタはPSE認証品 (maker添付品は非PSE品で非販売適合)</small> | Main unit*1 |
| | Alligator clip*1 pair |
| | Expandable IC clip*1 pair |
| | Input extension cable*1 pair |
| | Power adapter*1 |
| | USB Type-C cable*1 |
| | Quick Guide*1 |

Excellent amplitude frequency characteristics

The amplitude fluctuation within half bandwidth is less than 0.5dB, achieves excellent bandwidth flatness, maintains high accuracy in high frequency bands.



Specifications

| Model | DP700 | DP702 | DP1500 | DP1502 | DP3000 | DP3002 | DP7000 | DP7002 |
|--|---|--|--|---|--------|--------|--------|--------|
| Bandwidth | 100MHz | 200MHz | 100MHz | 200MHz | 100MHz | 200MHz | 100MHz | 200MHz |
| Max. input differential voltage (DC+AC PK) | 70V (20X) 700V (200X) | 150V (20X) 1500V (200X) | 300V (50X) 3000V (500X) | 700V (100X) 7000V (1000X) | | | | |
| Noise | Full bandwidth: 20X: ≤ 22mVrms 200X: ≤ 80mVrms 5MHz bandwidth limit: 20X: ≤ 8mVrms 200X: ≤ 70mVrms | Full bandwidth: 20X: ≤ 25mVrms 200X: ≤ 80mVrms 5MHz bandwidth limit: 20X: ≤ 10mVrms 200X: ≤ 60mVrms | Full bandwidth: 50X: ≤ 63mVrms 500X: ≤ 200mVrms 5MHz bandwidth limit: 50X: ≤ 25mVrms 500X: ≤ 150mVrms | Full bandwidth: 100X: ≤ 125mVrms 1000X: ≤ 400mVrms 5MHz bandwidth limit: 100X: ≤ 50mVrms 1000X: ≤ 300mVrms | | | | |
| 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 | 11.2ns(20X) 12.2ns(200X) | 12.7ns(20X) 12.2ns(200X) | 12.1ns(50X) 11.5ns(500X) | 12.2ns(100X) 12.3ns(1000X) | | | | |
| Input impedance | 5MΩ/2pF(differential) 2.5MΩ/4pF(each input to ground) | 10 MΩ/2pF(differential) 5MΩ/4pF(each input to ground) | 20MΩ/1.2 pF(differential) 10MΩ/2.4pF(each input to ground) | 60MΩ/0.78pF(differential) 30MΩ/1.6pF(each input to ground) | | | | |
| Output impedance | 1MΩ | 1MΩ | 1MΩ | 1MΩ | | | | |

*The previous model DP10007 has been upgraded to DP700.

*The previous model DP10013 has been upgraded to DP1500.

*The previous model DP20003 has been upgraded to DP3000.

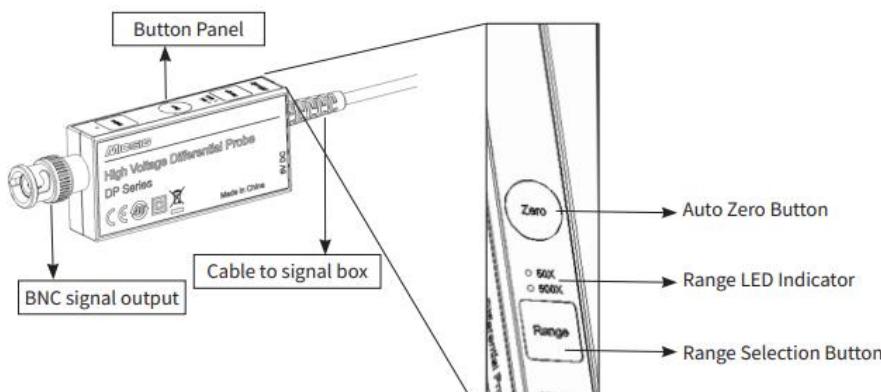
Note: These models have not only been upgraded in performance (see parameter table), but also in appearance, which has been newly designed and made more compact and exquisite. When placing orders, please handle them according to the new model numbers.

| Model | DP703 | DP705 | DP1503 | DP1505 | DP3003 | DP3005 |
|--|---|---|--|------------------------------|--------|--------|
| Bandwidth | 300MHz | 500MHz | 300MHz | 500MHz | 300MHz | 500MHz |
| Max. input differential voltage (DC+AC PK) | 70V (20X) 700V (200X) | 150V (20X) 1500V (200X) | 300V (50X) 3000V (500X) | 700V (100X) 7000V (1000X) | | |
| Noise | 20X: ≤ 125mVrms 200X: ≤ 140mVrms | 50X: ≤ 250mVrms 500X: ≤ 300mVrms | 100X: ≤ 500mVrms 1000X: ≤ 600mVrms | | | |
| CMRR | DC: >-80dB 100kHz: >-60dB 20MHz: >-40dB | DC: >-80dB 100kHz: >-60dB 20MHz: >-40dB | DC: >-80dB 100kHz: >-60dB 20MHz: >-40dB | | | |
| Delay time | 10.83ns (20X) 11.56ns (200X) | 11ns (50X) 9.8ns (500X) | 10.83ns (100X) 10.93ns (1000X) | | | |
| Input impedance | 4MΩ/1.175pF (differential) 2MΩ/2.35pF (each input to ground) | 20MΩ/1.175pF (differential) 10MΩ/2.35pF (each input to ground) | 20MΩ/1.175 pF (differential) 10MΩ/2.35pF (each input to ground) | | | |
| Output impedance | 50Ω | 50Ω | 50Ω | 50Ω | | |

| Parameters | |
|---------------------|---|
| Accuracy | ±2% |
| Power supply | DC 5V |
| Overload indication | LED flash, buzzer |
| Dimension | control module: L: 91mm W: 33mm H: 15mm Signal box: L: 100mm W: 36mm H: 20mm |
| Input cable length | 28cm |
| Output cable length | 135cm |
| 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) |

D Pプローブは接続先のオシロ等のB N Cコネクタ（外側メタル部がアースされる状態で安全にご使用できます。絶縁型は強制的にアースします（アダプタあり）

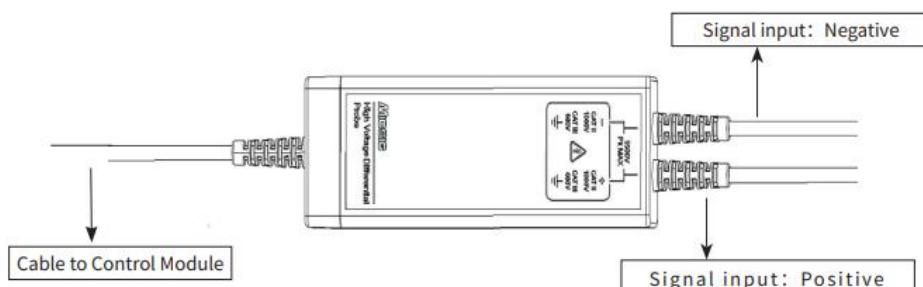
| Model | DP703 | DP704 | DP705 | DP1503 | DP1504 | DP1505 | DP3003 | DP3004 | DP3005 | | | | | | |
|--|---|----------|---------|---|----------|---------|---|----------|---------|--|--|--|--|--|--|
| Bandwidth | 300MHz | 400MHz | 500MHz | 300MHz | 400MHz | 500MHz | 300MHz | 400MHz | 500MHz | | | | | | |
| Rise time | ≤ 1.2ns | ≤ 0.87ns | ≤ 0.7ns | ≤ 1.2ns | ≤ 0.87ns | ≤ 0.7ns | ≤ 1.2ns | ≤ 0.87ns | ≤ 0.7ns | | | | | | |
| Attenuation | 20X / 200X | | | 50X / 500X | | | 100X / 1000X | | | | | | | | |
| Accuracy | ±2% | | | ±2% | | | ±2% | | | | | | | | |
| Max. input Differential Voltage (DC+AC PK) | 70V (20X) 700V (200X) | | | 150V (50X) 1500V (500X) | | | 300V (100X) 3000V (1000X) | | | | | | | | |
| Max. Voltage to ground | 600V (CAT I) 450V (CAT II) | | | 1000V (CAT II) 600V (CAT III) | | | 1000V (CAT III) | | | | | | | | |
| Noise | Full Bandwidth: 20X: ≤ 100mVrms 200X: ≤ 140mVrms | | | Full Bandwidth: 50X: ≤ 200mVrms 500X: ≤ 300mVrms | | | Full Bandwidth: 100X: ≤ 400mVrms 1000X: ≤ 600mVrms | | | | | | | | |
| CMRR | DC: >-80dB 100kHz: >-60dB 20MHz: >-40dB | | | DC: >-80dB 100kHz: >-60dB 20MHz: >-40dB | | | DC: >-80dB 100kHz: >-60dB 20MHz: >-40dB | | | | | | | | |
| Delay time | 10.83ns (20X) 11.56ns (200X) | | | 11ns (50X) 9.8ns (500X) | | | 10.83ns (100X) 10.93ns (1000X) | | | | | | | | |
| Input impedance | 4MΩ/1.175pF(differential) 2MΩ/2.35pF(each input to ground) | | | 20MΩ/1.175pF(differential) 10MΩ/2.35pF(each input to ground) | | | 20MΩ/1.175pF(differential) 10MΩ/2.35pF(each input to ground) | | | | | | | | |
| Output voltage | ≤ 3.5V | | | ≤ 3V | | | ≤ 3V | | | | | | | | |
| Output impedance | 50Ω | | | | | | | | | | | | | | |
| Power supply | DC 5V | | | | | | | | | | | | | | |
| Overrange | LED flashes, Buzzer beeps | | | | | | | | | | | | | | |
| Dimensions | Control module: L*W*H: 91 *33 *15 /mm Signal box: L*W*H: 100 * 36 * 20 /mm | | | | | | | | | | | | | | |
| Cable length | Approx. 8 cm (Input); Approx. 120cm (Output) | | | | | | | | | | | | | | |
| Temperature | Operating: 0°C ~ 40 °C Non-operating: -30 °C ~ 70 °C | | | | | | | | | | | | | | |
| Humidity | Operating: 5 ~ 85% RH (0°C ~ 40 °C) Non-operating: 5% ~ 85% RH (≤ 40 °C) ; 5% ~ 45% RH (40 °C ~ 70 °C) | | | | | | | | | | | | | | |
| Implementation standard | Q/MKX001-2023 | | | | | | | | | | | | | | |
| CE standard | EN IEC 61010-2-030 | | | | | | | | | | | | | | |
| EMC standard | EN IEC 61326-1:2021, EN IEC 61000-3-2:2019+A1:2021 and EN 61000-3-3:2013+A1:2019+A2:2021 | | | | | | | | | | | | | | |



Signal Box

D P プローブは接続先のオシロ等の B N C コネクタ（外側メタル部）がアースされる状態で安全にご使用できます。
絶縁型は強制的にアースします
(アダプタあり)

当店のACアダプタは
PSE認証品対応です
CHINA製は非PSE品で
販売不可



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