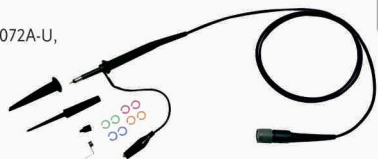


## GTP-070B-4

For: GDS-1052-U/1072-U/1072A-U,  
GDS-2072A/2074A,  
GDS-2072E/2074E

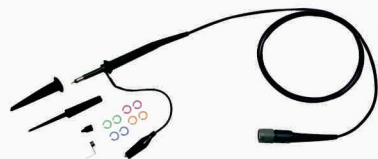


GTP-070B-4 is a x1, x10 attenuator modular probe. Designed for use with DC to 70MHz oscilloscope with input impedance of 1MΩ. The probe consists of following separate units;  
1. BNC male connector and compensation box.  
2. Probe body probe tip and R.C. assemblies.  
3. Approx. 1.2M cable

Item	10:1	1:1
Bandwidth	DC~70MHz(±3dB)	DC~6MHz(±3dB)
Input R	~10MΩ	1MΩ (Oscilloscope)
Input C	14.5~17.5pF	85~115pF
Att. Ratio	1/10	1/1
Max. Input Voltage	≤600V DC+AC peak	≤200V DC+AC peak
Accessories	1.Pincher tip 2.Ground lead 3.Cable marker 4.Screw driver 5.IC tip 6.Adjusting tool 7.Earth tip	

## GTP-100B-4

For: GDS-2102A/2104A,  
GDS-2102E/2104E,  
GOS-6103/6103C/6112



The GTP-100B-4 is a passive high impedance oscilloscope probe designed and calibrated for use on instrument having an input impedance of 1MΩ shunted by 20pF. However, it may be compensated for use with instruments having an input capacitance of 5~30pF(10:1).The probe incorporates a two position slide switch in the head which selects attenuation of x1, x10 position.

Item	10:1	1:1
Bandwidth	DC~100MHz(±3dB)	DC~10MHz(±3dB)
Input R	~10MΩ	1MΩ (Oscilloscope)
Input C	14.5~17.5pF	85~115pF
Att. Ratio	1/10	1/1
Max. Input Voltage	≤600Vpk	≤200Vpk
Accessories	1.Channel identifier clip 2.Hook 3.Ground lead 4.Insulating tip 5.IC tip 6.Adjusting tool 7.Earth tip	

## GTP-150B-4

For: GDS-1152A-U,  
GDS-2102A/2104A



The GTP-150B-4 is a passive high impedance oscilloscope probe designed and calibrated for use on instrument having an input impedance of 1MΩ shunted by 20pF. However, it may be compensated for use with instruments having an input capacitance of 5~30pF. The probe incorporates a two position slide switch in the head which selects attenuation of x1, x10 position.

Item	10:1	1:1
Bandwidth	DC~150MHz(±3dB)	DC~6MHz(±3dB)
Input R	~10MΩ	1MΩ (Oscilloscope)
Input C	8.5~18.5pF	45~65pF
Att. Ratio	1/10	1/1
Max. Input Voltage	600V DC+AC peak	200V DC+AC peak
Accessories	1.Channel identifier clip 2.hook 3.Ground lead 4.Insulating tip 5.IC tip 6.Adjusting tool 7.Earth tip	

## GTP-150B-2

For: GDS-300/200 Series

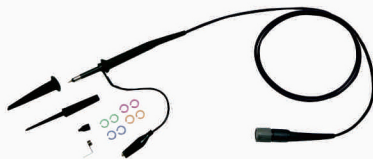


The GTP-150B-2 is a passive high impedance oscilloscope probe designed and calibrated for use on instrument having an input impedance of 1MΩ shunted by 20pF. However, it may be compensated for use with instruments having an input capacitance of 10~30pF. The probe incorporates a two position slide switch in the head which selects attenuation of x1,x10 position.

Item	10:1	1:1
Bandwidth	DC~150MHz(±3dB)	DC~6MHz(±3dB)
Input R	~10MΩ	1MΩ (Oscilloscope)
Input C	13pF	65pF
Att. Ratio	1/10	1/1
Max. Input Voltage	500V CAT I, 400CAT II	150V CAT I, 150V CAT II
Accessories	1.Channel identifier clip 2.Hook 3.Ground lead 4.Insulating tip 5.IC tip 6.Adjusting tool 7.Earth tip	
Compensatim Range	—	10~30pF

## GTP-200B-4

For: GDS-Series

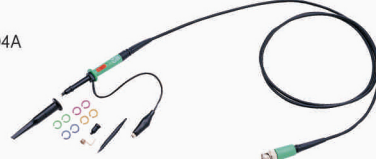


The GTP-200B-4 is a passive high impedance oscilloscope probe designed and calibrated for use on instrument having an input impedance of 1MΩ shunted by 20pF. However, it may be compensated for use with instruments having an input capacitance of 5~30pF. The probe incorporates a two position slide switch in the head which selects attenuation of x1, x10 position.

Item	10:1	1:1
Bandwidth	DC~200MHz(±3dB)	DC~10MHz(±3dB)
Input R	~10MΩ	1MΩ (Oscilloscope)
Input C	10.5~17.5pF	65~105pF
Att. Ratio	1/10	1/1
Max. Input Voltage	600V peak	200V peak
Accessories	1.Channel identifier clip 2.hook 3.Ground lead 4.Insulating tip 5.IC tip 6.Adjusting tool 7.Earth tip	
Compensation Range	5~30pF	—

## GTP-250A-2

For: GDS-2202A/2204A



The GTP-250A-2 is a passive high impedance oscilloscope probe designed and calibrated for use on instrument having an input impedance of 1MW shunted by 20pF. However, it may be compensated for use with instruments having an input capacitance of 10~35pF. Connect this sentence to the end of the previous sentence.

Item	10:1	1:1
Bandwidth	DC~250MHz(±3dB)	DC~6MHz(±3dB)
Input R	~10MΩ	1MΩ (Oscilloscope)
Input C	~17pF	~47pF
Att. Ratio	1/10	1/1
Max. Input Voltage	500V CAT I, 300CAT II	300V CAT I, 150V CAT II
Accessories	1.Channel identifier clip 2.Hook 3.Ground lead 4.Insulating tip 5.IC tip 6.Adjusting tool 7.Earth tip	

## Ordering Guide

If an accessory is ordered separately from the main product, please indicate the nomenclature of the accessory when placing order.

Example : GSC-006 Soft Carrying Case for GDS-1000A-U Series

If an accessory is ordered along with the main product, please indicate the option number of the accessory when placing order.

Example : GDS-3352 350MHz, 2-Channel, Visual Persistence DSO , GSC-008 Soft Carrying Case

## GTP-151R

For : GDS-3000 Series

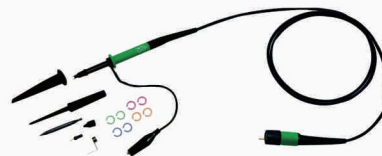


The GTP-151R is compatible with readout function oscilloscopes that automatically detect and display the attenuation factor of the probe.

Item	10:1
Bandwidth	DC~150MHz(±3dB)
Input R	~10MΩ
Input C	~12pF
Att. Ratio	1/10
Max. Input Voltage	< 500 Vpk
Accessories	1.Channel identifier clip 2.Sprung hook 3.Ground lead 4.Insulating tip 5.IC tip 6.Adjusting tool 7.Measuring tip 8. Sprung earth tip

## GTP-251R

For: GDS-3000 Series

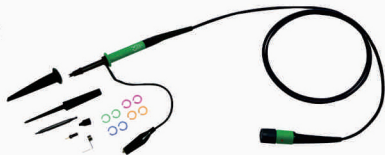


The GTP-251R is compatible with readout function oscilloscopes that automatically detect and display the attenuation factor of the probe.

Item	10:1
Bandwidth	DC~250MHz(±3dB)
Input R	~10MΩ
Input C	~12pF
Att. Ratio	1/10
Max. Input Voltage	DC 500V CAT I, 300V CAT II
Accessories	1.Channel identifier clip 2.Sprung hook 3.Ground lead 4.Insulating tip 5.IC tip 6.Adjusting tool 7.Measuring tip 8. Sprung earth tip

## GTP-250B-2

For: GDS-300/200 Seri

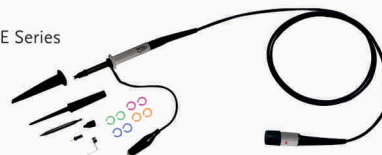


The GTP-250B-2 is a passive high impedance oscilloscope probe designed and calibrated for use on instrument having an input impedance of 1MΩ shunted by 20pF. However, it may be compensated for use with instruments having an input capacitance of 10~35pF. Connect this sentence to the end of the previous sentence.

Item	10:1	1:1
Bandwidth	DC~250MHz(±3dB)	DC~6MHz(±3dB)
Input R	~10MΩ	1MΩ (Oscilloscope)
Input C	~13pF	~65pF
Att. Ratio	1/10	1/1
Max. Input Voltage	500V CAT I, 400V CAT II	150V CAT I, 150V CAT II
Accessories	1.Channel identifier clip 2.Hook 3.Ground lead 4.Insulating tip 5.IC tip 6.Adjusting tool 7.Earth tip	

## GTP-300B-4

For: GDS-2202E/2204E Series



The GTP-300A-4 is a passive high impedance oscilloscope probe designed and calibrated for use on instrument having an input impedance of 1MΩ shunted by 20pF. However, it may be compensated for use with instruments having an input capacitance of 10~35pF. The probe incorporates a two position slide switch in the head which selects attenuation of x1, x10 position.

Item	10:1	1:1
Bandwidth	DC~300MHz(±3dB)	DC~10MHz(±3dB)
Input R	~10MΩ	1MΩ (Oscilloscope)
Input C	10.5~17.5pF	65~105pF
Att. Ratio	1/10	1/1
Max. Input Voltage	600V DC+AC pk	200V DC+AC pk
Accessories	1.Channel identifier clip 2.Hook 3.Ground lead 4.Insulating tip 5.IC tip 6.Adjusting tool 7.Earth tip	

## GTP-351R/352R

For: GDS-3000 Series



Both GTP-351R and GTP-352R are passive high impedance oscilloscope probes designed and calibrated for use on instrument. GTP-351R has an input impedance of 1 MΩ shunted by 20pF while GTP-352R has an input impedance of 1 MΩ shunted by 15pF. However, GTP-351R may be compensated for use with instruments having an input capacitance of 10~35pF while GTP-352R has an input impedance of 10~30pF.

	GTP-351R	GTP-352R
Item	10:1	20:1
Bandwidth	DC~350MHz	DC~350MHz
Input R	~10MΩ	~10MΩ
Input C	~12pF	~7pF
Att. Ratio	1/10	1/20
Max. Input Voltage	500V CAT I, 300V CAT II	1kV CAT II
Accessories	1.Channel identifier clip 2.Sprung hook 3.Ground lead 4.Insulating tip 5.IC tip 6.Adjusting tool 7.Measuring tip 8. Sprung earth tip	

## GTP-350A-2

For: GDS-3000 Series  
GDS-2302A/2304A



The GTP-352A-2 is a passive high impedance oscilloscope probe designed and calibrated for use on instrument having an input impedance of 1MΩ shunted by 15pF. However, it may be compensated for use with instruments having an input capacitance of 10~30pF. Connect this sentence to the end of the previous sentence.

Item	10:1	1:1
Bandwidth	DC~350MHz	DC~6MHz
Input R	~10MΩ	~1MΩ
Input C	~13pF	~46pF
Att. Ratio	1/10	1/1
Max. Input Voltage	500V CAT I, 300V CAT II	300V CAT I, 150V CAT II
Accessories	1.Channel identifier clip 2.Sprung hook 3.Ground lead 4.Insulating tip 5.IC tip 6.Adjusting tool 7.Measuring tip 8. Sprung earth tip	

## GKT-100 Deskew Fixture

The GKT-100 deskew fixture is used to compensate for the propagation delay between a passive voltage probe and current probe. It is used with the GDS-3000 Series, Required tools.

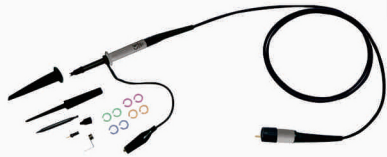
- 1.GDS-3000 x 1
- 2.GKT-100 x 1
- 3.USB type A-B cable x1 -used for deskew fixture
- 4.Standard passive probe x1
- 5.Current probe x1 (GCP-530 or GCP-1030)



# ACCESSORIES

## GTP-501R

For: GDS-3000 Series  
GDS-2000A Series



The GTP-501R is a passive high impedance oscilloscope probe designed and calibrated for use on instrument having an input impedance of 1MΩ shunted by 13pF. However, it may be compensated for use with instruments having an input capacitance of 8–20pF. Connect this sentence to the end of the previous sentence.

Item	10:1
Bandwidth	DC~500MHz
Input R	~10MΩ
Input C	~11.5pF
Att. Ratio	1/10
Max. Input Voltage	500V CAT I, 300V CAT II
Accessories	1.Channel identifier clip 2.Sprung hook 3.Ground lead 4.Insulating tip 5.IC tip 6.Adjusting tool 7.Measuring tip 8. Sprung earth tip

## GTP-033A

For: GDS-3000 Series



GTP-033A is a x 1, attenuator modular probe. Designed for use with DC to 35MHz oscilloscope with input impedance of 1MΩ The probe consists of following separate units;  
1. BNC male connector and compensation box.  
2. Approx. 1.2M cable

Item	1:1
Bandwidth	DC~35MHz(±3dB)
Input R	1MΩ (Oscilloscope)
Input C	~83pF
Att. Ratio	1/1
Max. Input Voltage	<300 CATI
Accessories	1.Channel Identifier Clip 2.Sprung Hook 3.Ground Lead 4.Insulating Tip 5. IC Tip

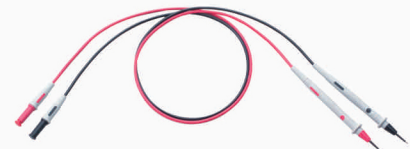
## GTL-101



## GTL-110



## GTL-207A



## GTL-232



## GTL-246



## GTL-248



## GTL-250



## GTL-253

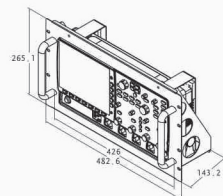


## GTL-205A



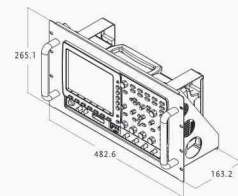
## GRA-411 Rack Mount Kit

For : GDS-3000 Series



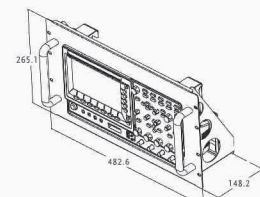
## GRA-420 Rack Mount Kit

For : GDM-2000A Series



## GRA-426 Rack Mount Kit

For : MDO-2000A Series, MDO-2000E Series, MSO-2000E Series, GDS-2000E Series, GDS-1000B Series



# ACCESSORIES

## Current Probe and Differential Probe Selections

## Dual-channel Differential Probe



GCP-100/020    GCP-300/500/1000    GCP-530/1030,GCP-206P/425P    GDP-025    GDP-050/100    GDP-040D (for GDS-300/200 only)

In addition to the standard passive probes, the optional current or differential probes can be used to perform additional tests or power analysis.

The differential probes come in three bandwidths: 25MHz, 50MHz and 100MHz. The current probes come in a broad variety of bandwidth and current ranges (ranging from 50MHz/30A, 100MHz/30A, 40kHz/240A, 300kHz/200A, 500kHz/150A, 1MHz/70A, 100kHz/100A), to cover any number of power supply testing applications.

\* The GCP-530/1030 must be used in conjunction with the GCP-206P/425P current probe power supply.

\* The GCP-206P is capable of powering 2 units of GCP-530 or GCP-1030 and the GCP-425P is capable of powering 4 units.

\* The GCP-100 requires a standard 9V battery; The GCP-020 do not require batteries or a power supply source.

### CURRENT PROBE

	GCP-100	GCP-020	GCP-300	GCP-500	GCP-530	GCP-1000	GCP-1030
Probe Bandwidth	DC-100kHz	40Hz-40kHz	DC-300kHz	DC-500kHz	DC-50MHz	DC-1MHz	DC-100MHz
Rise Time	-	-	1.17µs(Typ.)	0.7µs(Typ.)	7ns or less	0.35µs (Typ.)	3.5ns or less
Maximum Continuous Input Range	0.05-10A(100mV/A) 1-100A(10mV/A)	0.1-24A(100mV/A) 0.5-240A(10mV/A)	200A(10mV/A) 20A(100mV/A)	150A(20mV/A) 15A(200mV/A)	30Apeak	7A(50mV/A) 70A(500mV/A)	30Apeak
Maximum Peak Current Value	100A	60A(100mV/A) 600A(10mV/A)	DC : 200A AC : 140Arms	DC : 150A AC : 100Arms	50A	DC : 70A AC : 50Arms	50A
Output Voltage Rate	100mV/A;10mV/A	10mV/A;100mV/A	100mV/A ;10mV/A	200mV/A;20mV/A	0.1V/A	500mV/A;50mV/A	0.1V/A
DC Amplitude Accuracy	≤3%±5mV (50mA-10A peak) ≤4%±500µV (0.5A-40A peak) ≤15%(40-100A peak)	≤2%±50mV (100mA-20A peak) ≤3.5%±5mV (0.5-10A peak) ≤3%±5mV (10-40A peak) ≤1.5%±5mV (100A-240A peak)	±3% ±50 mA at 100 mV/A (50 mA – 20A peak range) ±4% ±50 mA at 10 mV/A (500 mA – 80A peak range) ±15% max at 10 mV/A (80A peak – 200A peak range)	±3% ±30 mA at 200 mV/A (30 mA – 15 A peak range) ±4% ±300 mA at 20 mV/A (300 mA – 80 A peak range) ±15% max at 20 mV/A (80A peak – 150A peak range)	±1.0%rdg±1mV (0-30Arms/DC, 45-66Hz);±2.0%rdg (30Arms-50A peak /DC, 45-66Hz)	±3% ±20 mA at 500 mV/A (20 mA – 7A peak range) ±4% ±200 mA at 50 mV/A (200 mA – 50 A peak range) ±15% max at 50 mV/A (50A peak – 70A peak range)	±1.0%rdg±1mV (0-30Arms/DC, 45-66Hz);±2.0%rdg (30Arms-50A peak /DC, 45-66Hz)
Noise	-	-	-	-	2.5mArms or less	-	2.5mArms or less
Rate Supply Voltage	-	-	-	-	±12V± 0.5V	-	±12V± 0.5V
Maximum Rated Power	-	-	-	-	5.6VA	-	5.3VA
Maximum Rated Voltage	600V, CAT III	600V, CAT III	CAT III 300V/CAT II 600V	CAT III 600V	300V, CAT I	CAT III 600V	300V, CAT I

### CURRENT PROBE POWER SUPPLY

	GCP-206P	GCP-425P
Compatible Current Probe	GCP-530/GCP-1030	GCP-530/GCP-1030
Number of Power Supply Connectors	2	4
Output Voltage	±12V± 0.5V	±12V± 0.5V
Rated Output Current	±600mA	±2.5A
Rated Supply Voltage(50/60Hz)	110V/120V, 220V/240V AC±10%	100V-240V AC±10%
Maximum Rated Power	20VA	170VA
Dimensions & Weight	73 (W)x110(H)x186(D)mm ; Approx.1.1kg	80(W)x119(H)x200(D) mm ; Approx.1.1kg
Accessories	Power cord, fuse	Power cord, fuse

### HIGH-VOLTAGE DIFFERENTIAL PROBE

	GDP-025	GDP-050	GDP-100
Probe Bandwidth	DC – 25MHz (attenuation x50, x200) ; DC – 15MHz(attenuation x20)	DC – 50MHz(attenuation x200, x500, x1000) ; DC – 25MHz(attenuation x100)	DC – 100MHz(attenuation x200, x500, x1000) ; DC – 50MHz(attenuation x100)
Attenuation	x20, x50, x200	x100, x200, x500, x1000	x100, x200, x500, x1000
Accuracy	±2%	±2%	±2%
Voltage Input Range (DC+AC peak to peak)	≤140Vp-p for x 20, ≤350Vp-p for x 50, ≤1400Vp-p for x 200	≤700Vp-p for x 100 ≤1400Vp-p for x 200 ≤3500Vp-p for x 500 ≤7000Vp-p for x 1000	≤700Vp-p for x 100 ≤1400Vp-p for x 200 ≤3500Vp-p for x 500 ≤7000Vp-p for x 1000
Permitted Max Input Voltage	Maximum differential voltage: Max voltage between input terminal and ground: 600Vrms	Maximum differential voltage: Max voltage between input terminal and ground: 6500Vrms	Maximum differential voltage: Max voltage between input terminal and ground: 6500Vrms
Input Impedance	Differential:4MΩ/1.2pF ; Between terminals and ground: 2MΩ/2.3pF	Differential:54MΩ/1.2pF ; Between terminals and ground:27MΩ/2.3pF	Differential: 54MΩ/1.2pF ; Between terminals and ground: 27MΩ/2.3pF
Output	≤7.0V	≤7.0V	≤7.0V
Output impedance	50Ω	50Ω	50Ω
Rise Time	14ns (x50, x200 attenuation) ; 23.4ns (x20 attenuation)	7ns (x200, x500, x1000 attenuation) ; 14ns (x100 attenuation)	3.5ns (x200, x500, x1000 attenuation) ; 7ns (x100 attenuation)
Rejection Rate on Common Mode(CMRR)	60Hz>80dB, 100Hz>60dB, 1MHz>50dB	60Hz>80dB, 100Hz>60dB, 1MHz>50dB	60Hz>80dB, 100Hz>60dB, 1MHz>50dB
Power Supply	External DC adapter	External DC adapter	External DC adapter
Consumption	Maximum 35mA (0.4Watt)	Maximum 35mA (0.4Watt)	Maximum 35mA (0.4Watt)

### DUAL-CHANNEL DIFFERENTIAL PROBE

	GDP-040D
Channel	2
Bandwidth (-3dB)	DC – 40MHz (x200)
Attenuation	200 X
Voltage Input Range	600Vpp Max. CAT III
Output	≤ ±3V
Maximum Input Voltage to Earth	600Vpp for x200
Typical CMRR	80dB@60Hz ; 60dB@100Hz ; 50dB@1MHz
Input Impedance	Differential : 2MΩ//1.2pf, Ground 1MΩ//2.4pF
Output Impedance	50Ω
Rise Time	8.75ns for x200
Power Supply	5V DC from GDS-300/200 Series
Accuracy	±2%
Dimension	81.7(H) x 123.0(W) x 28.0(D) mm