

# Instructions

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- P6020      20MHz
- P6040      40MHz
- P6060      60MHz
- P6100      100MHz
- P6150      150MHz
- P6200      200MHz

**1× & 10× Passive Probe**



## Operating Instruction

These passive high impedance probes are designed and calibrated for use on any oscilloscope that has an input impedance of 1 M $\Omega$  and whose input capacity is within the compensation range (refer to the specifications). When connecting the probe, please connect it to the oscilloscope before testing signals. When disconnecting the probe, first disconnect the probe tip from the test signal. In the process of test, make sure that alligator clip can be grounded reliably.

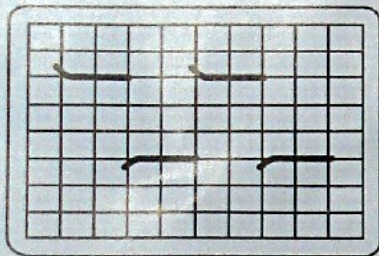
## Specifications

Model		P6020	P6040	P6060	P6100	P6150	P6200
Attenuation Ratio		1 $\times$ & 10 $\times$					
Input Resistance(M $\Omega$ )	1 $\times$	1					
	10 $\times$	10					
Input Capacitance(pF)	1 $\times$	130			90		
	10 $\times$	20			18		
Compensation Range(pF)	1 $\times$	x					
	10 $\times$	15-45			10-35		
Bandwidth(MHz)	1 $\times$	6					
	10 $\times$	20	40	60	100	150	200
Rise time(ns)	1 $\times$	58					
	10 $\times$	17.5	8.75	5.8	3.5	2.3	1.75
Working Voltage(V <sub>P-P</sub> )	1 $\times$	300					
	10 $\times$	600					
Net Weight(g)		64					
Cable Length(cm)		120					
Operating Temp.( $^{\circ}$ C)		-10--+50					
Non-Operating Temp.( $^{\circ}$ C)		-20--+75					
Humidity		$\leq$ 85% Relative Humidity					

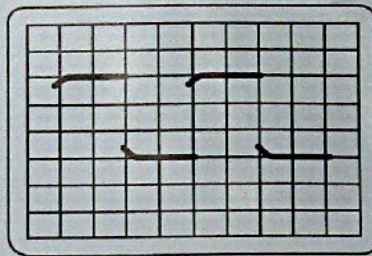
## Low-frequency Compensation Adjustment

Low frequency response can be matched to the oscilloscope by adjusting the compensation trimmer on the head of the probe.

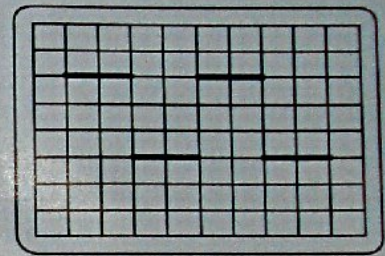
1. Connect the probe to the oscilloscope and to a 1KHz square waveform source.
2. Let the oscilloscope display a stable waveform.
3. Carefully adjust the trimmer tool to obtain the flat test tops to the square waves displayed on the oscilloscope.



INCORRECT

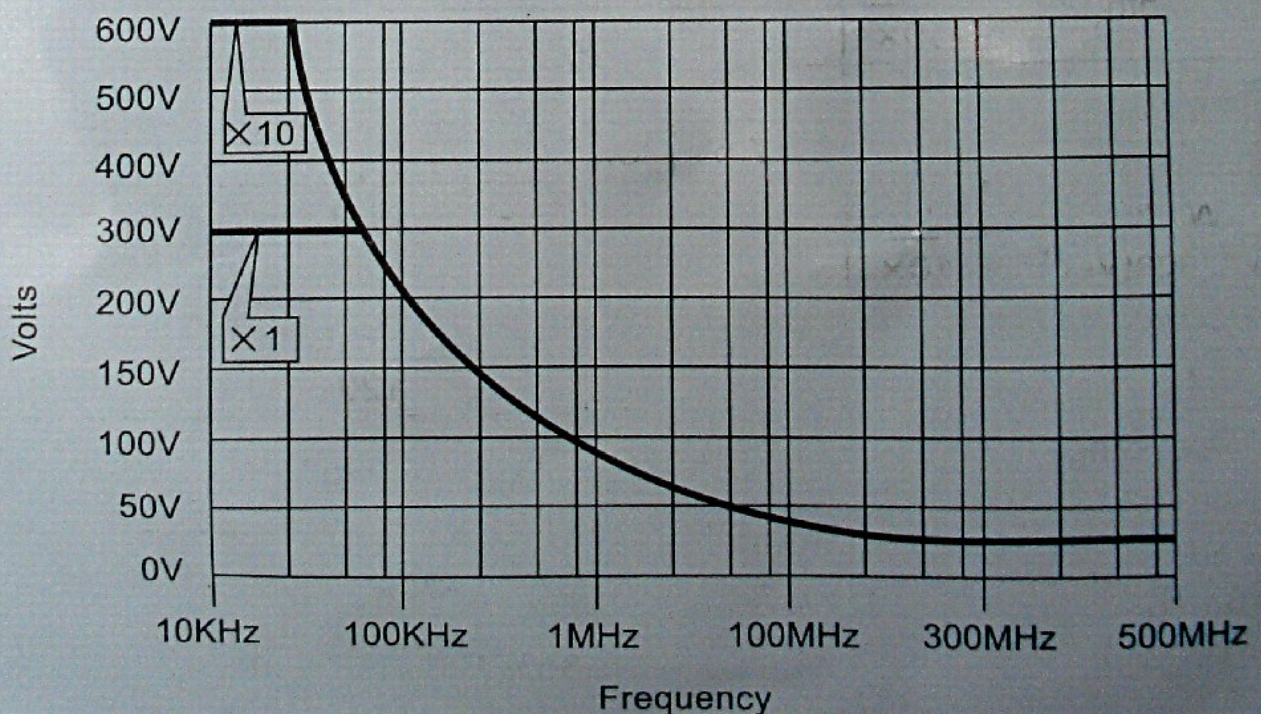


INCORRECT



CORRECT

## Maximum Working Voltage Derating Curve (VDC+VACp-p)



## **Warning**

When making measurements, personal safety is very important. Make sure that you understand the capabilities and limitations of probes to prolong their use-life.

Please note

1. Do not operate in wet/damp conditions.
2. Do not operate in an explosive atmosphere.
3. Do not operate with suspected failures.
4. Do not immerse probes in liquids.
5. Keep probe surfaces clean and dry.
6. Connect and disconnect probes properly.

## **Product List**

- ① Probe – 1 pc    ② Accessory – 1 pc    ③ Ground wire – 1 pc
- ④ colour ring – 4 pcs    ⑤ Locating cap – 1 pc
- ⑥ Regulating rod – 1 pc    ⑦ Ground spring – 1 pc (P6200)
- ⑧ Instruction – 1 copy

## **Notice**

All the specifications are subject to change without notice.