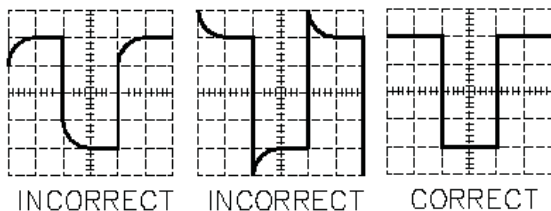


## Introduction

The TA131 is a passive high impedance probe, designed for use with oscilloscopes. It is calibrated to work effectively with instruments that have an input impedance of 1M Ohm, shunted by 18 pF. You can also use it with oscilloscopes that have an input capacitance of 10-35pF, if you make an adjustment to compensate. In the head of the probe is a two position slide switch which allows you to select the attenuation you require: either X1 or X10. The small box adjacent to the BNC plug contains two adjustable resistors that enable high frequency trimming. This is usually not required.

## Frequency compensation adjustment

Connect the probe to an oscilloscope and a 1KHz square waveform source. Move the attenuation switch on the probe to the X10 position. Set the oscilloscope to display two to three cycles, and two to six vertical divisions. Carefully adjust the compensation trimmer tool on the head of the probe until the waves displayed on the oscilloscope are perfectly square.



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## Specifications:

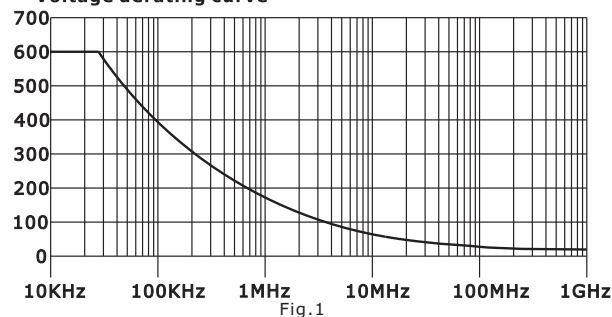
### Position X10

|                    |  |
|--------------------|--|
| Attenuation Ratio  | 10:1   |
| Bandwidth          | DC to 250MHz   |
| Rise time          | 1.4ns  |
| Input Resistance   | 10M when used with oscilloscopes with 1M input           |
| Input Capacitance  | Approx.11pF  |
| Compensation Range | 10 to 35pF   |
| Working Voltage    | 600VDC incl. Peak AC derating with frequency (see Fig.1) |

### Position X1

|                   |   |
|-------------------|---|
| Attenuation Ratio | 1:1   |
| Bandwidth         | DC to 10MHz                                   |
| Rise Time         | 35ns  |
| Input Resistance  | 1M(Oscilloscope Input)                        |
| Input Capacitance | 46pF plus oscilloscope capacitance            |
| Working Voltage   | 600V DC incl. Peak AC Derating with frequency |
| Safety            | conformed IEC-1010 CAT II                     |
| Cable Length      | 1.2Meter                                      |

## Voltage derating curve



Update:22-04-2011