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Find the *Pico Technology TA131* at our website: ***Click HERE***

OSCILLOSCOPE PROBE

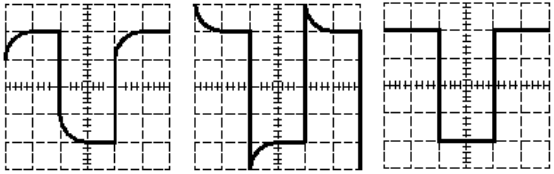
☐ TA131 ☐ TA132 ☐ TA159 ☐ TA160

INTRODUCTION

This passive high-impedance probe is compensated to work effectively with a specific range of PicoScope oscilloscopes. Please check your PicoScope label to find the correct probe for your oscilloscope. You can also use this probe with oscilloscopes that have an input capacitance of 10 to 35 pF if you make an adjustment to compensate. In the head of the probe is a two-position slide switch that 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 1 kHz 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.



INCORRECT INCORRECT CORRECT

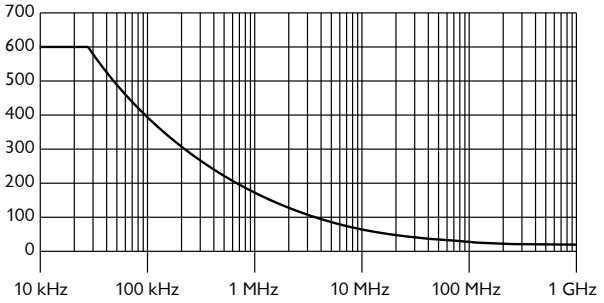
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SPECIFICATIONS

Model	TA131		TA132		TA159		TA160	
Attenuation ratio	x1	x10	x1	x10	x1	x10	x1	x10
Bandwidth (MHz)	10	250	10	150	10	150	10	250
Rise time (ns)	35	1.4	35	2.33	35	2.33	35	1.4
Input resistance (MΩ)*	1	10	1	10	1	10	1	10
Input capacitance (pF)	57	15	57	15	57	15	57	15
Compensation range (pF)	–	10–35	–	10–35	–	10–35	–	10–35
Working voltage (V)	600 (DC + peak AC)							
Safety	Conforms to IEC-61010 CAT II							
Cable length (m)	1.2							

* x1: 1 MΩ input resistance direct to oscilloscope input.
x10: 10 MΩ when used with oscilloscopes with 1 MΩ input.

VOLTAGE DERATING CURVE



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