



Overview

DESCRIPTION

The AP033 is a wide band differential active probe. The probe features low noise, low input capacitance, high common mode rejection, and FET-buffered inputs in the probe head. User selectable attenuation and offset give the probe flexibility to measure a large range of signal amplitudes. Plug-on attenuator and AC coupling accessories further extend the application range. Interconnect accessories included allow connection to surface mount and through-hole components with minimal signal degradation. The input receptacles in the probe head are compatible with standard 0.025 in. (0.635 mm) square pins. This provides a convenient low cost method of creating device characterization test fixtures.

The probe is powered directly from a LeCroy oscilloscope through the ProBus® interface. The ProBus interface also allows local control of the probe through the oscilloscope user interface and remote control through the interface buses, (GPIB, RS-232). The optional ADPPS power supply allows the AP033 to be used with other instruments such as spectrum analyzers, network analyzers, and oscilloscopes without ProBus interface.

APPLICATIONS

The AP033 is ideal for acquiring high speed differential signals such as those found in disk drive read channels, differential LAN, video, etc. It can also be used with spectrum analyzers to acquire signals in some RF systems (for example, balanced IF mixers in hand held cellular telephones). The high impedance characteristics of both inputs allow the probe to be used as a FET probe to make single-ended measurements in digital systems without introducing a ground loop, as a conventional FET probe would.



CONVENTIONS USED IN THIS MANUAL

The following conventions may appear in this manual:

Note

A Note contains general information relating to the use of the product.

Caution

A Caution contains information that should be followed to avoid possible damage to the instrument or the device under test.

WARNING

A Warning alerts you to potential injury to yourself. Failing to adhere to the statement in a WARNING message could result in bodily injury.

The following symbol may appear on the product:



Read First: Safety Information

The corresponding information in the manual is denoted with the same symbol.

CAT I Overvoltage Installation Category per EN 61010-1

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