

SPECIFICATIONS

Description

The P6130 is a subminiature, 10X passive probe designed for use with all general-purpose oscilloscopes. It is fully compatible with the Tektronix family of subminiature probe accessories. The P6130 is available with a 1.5, 2, or 3-meter cable.

Electrical Characteristics

Attenuation: 10X \pm 3% at dc. (Oscilloscope input must be 1 M Ω \pm 2%.)

Input Resistance (System): 10 M Ω \pm 2%. (See Figure 1.)

Input Capacitance: (See Figure 1.)

1.5-Meter Probe	Approximately 12.7 pF.
2-Meter Probe	Approximately 13.2 pF.
3-Meter Probe	Approximately 14.5 pF.

Compensation Range: 15 pF to 35 pF. (3-m version: 15 pF to 30 pF.)

System Bandwidth (-3 dB): DC to at least 250 MHz (3-m version: 150 MHz) on a TEKTRONIX 475A or equivalent oscilloscope.

Maximum Nondestructive Input Voltage: 500 V (dc + peak ac) to 1.3 MHz. (See Figure 2 for voltage derating curve.)

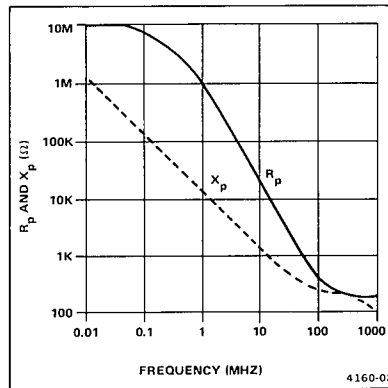


Figure 1. Typical X_p and R_p versus frequency.

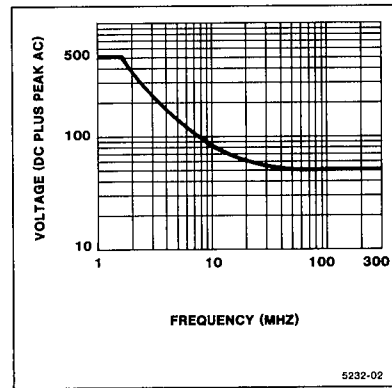


Figure 2. Typical voltage derating versus frequency.

Environmental Characteristics

Temperature Range (Operating): -15°C to $+75^{\circ}\text{C}$ ($+5^{\circ}\text{F}$ to $+167^{\circ}\text{F}$).

Temperature Range (Nonoperating): -62°C to $+85^{\circ}\text{C}$ (-80°F to $+185^{\circ}\text{F}$).

Humidity: Five cycles (120 hr) at 95% to 97% relative humidity. Per Tek Standard 062-2847-00, Class 3. Ref to MIL-E-16400F, paragraph 4.5.9 through 4.5.9.5.1, class 4.

Physical Characteristics

Net Weight (includes accessories):

1.5-Meter Probe	111 g (3.9 oz).
2-Meter Probe	136 g (4.8 oz).
3-Meter Probe	159 g (5.6 oz).

Probe Cable Length: 1.5 m (4.9 ft), 2.0 m (6.6 ft), or 3.0 m (9.8 ft).

Safety

To avoid explosion, do not operate this product in an explosive atmosphere unless it has been specifically certified for such operation.

This product meets the requirements of UL 1244.

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INSTRUCTION
SHEET
NO. 070-5513-00
PRODUCT GROUP 60

TEK PROBE
AND ACCESSORIES

P6130
10X PASSIVE PROBE
GENERAL PURPOSE, SUBMINIATURE

Tektronix
COMMITTED TO EXCELLENCE