

## 10525T LOGIC PROBE SPECIFICATIONS

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**Probe Lamp Indications with Positive Logic:** Logic ONE: "Bright". Logic ZERO: "Off".  
Between ZERO and ONE: "Dim".

**Positive Logic Threshold Voltages:** Logic ONE:  $2.0 \pm 0.2$  volts, Logic ZERO:  $0.8 + 0.2 - 0.4$  volts.

**Input Impedance:** Greater than 25,000 ohms (input characteristics are similar to low power TTL integrated circuits).

**Pulse Width Sensitivity (minimum input pulse duration for probe tip lamp indication):** 10 nanoseconds (a 5 nanosecond input pulse will typically give a lamp indication). A ground clip is required for best pulse width sensitivity. Without a ground clip the positive pulse width sensitivity is typically 10 nanoseconds and the negative pulse width sensitivity is 15 nanoseconds.

### NOTE

*The indication is an approximately 50 millisecond lamp flash.  
ON for positive pulses and OFF for negative pulses.*

**Maximum Input Pulse Repetition Frequencies:** Greater than 50 MHz.

**Input Overload Protection (allowable input overloads):**  $\pm 70$  volts dc maximum continuous;  $\pm 200$  volts dc transients; 120 volts ac for 30 seconds.

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**Power Requirements:** +5 volts dc  $\pm 5\%$  at 60 milliamperes (the probe is protected against supply voltages between +7 and -15 at the power input connector).

### VOLTAGE CAUTION

**Probe DAMAGE** will occur with power supply potentials more positive than +7 volts or more negative than -15 volts.

**Operating Environment:** 0°C to 55°C.

**Weight:** 2½ ounces.

**Size:** Probe body, 6 inches; Cable, 3.5 feet.

**Accessories Provided:** Ground clip and BNC-to-alligator adapter.

**Options Available:** *Option 005: Tip Kit (10525-60012)* — Straight Tip, Hooked Tip, Spring Tip, Banana Tip Back Plane Adapter, Dual Banana-to-BNC Adapter. *Option 006: Pulse Memory (10525-60015)* — A small box connected between the Probe and the +5 volt power source. The Pulse Memory stores the occurrence of a transient pulse.