Table 1-1. Model 5363B Specifications

INPUT REQUIREMENTS:

Operating Range: ±10V.
Damage Level: ±30V.
Minimum Input Voltage: 100 mV above and below the trigger point.
Minimum Pulse Width: Input signal must remain 100 mV below and above trigger point for at least 5 ns.

ABSOLUTE ACCURACY:

$$\pm 1 \text{ ns}^{*} \pm \frac{\text{START TLA + START NTE}}{\text{START slew rate}} \pm \frac{\text{STOP TLA + STOP NTE}}{\text{STOP slew rate}}$$

where TLA denotes trigger level accuracy and NTE denotes noise trigger error, defined below.

TRIGGER LEVEL ACCURACY:

Trigger Level	-5V to +9V	-5V to -10V	+9V to +10V
1 Trigger Level Accuracy	±8 mV ±0.4 mV/°C ±0.15% trigger voltage	±1% trigger voltage	50 mV
1 Differential Trigger Level Accuracy	±3 mV ±0.3% trigger voltage	±1% trigger voltage	100 mV

Differential trigger level accuracy applies when both START and STOP trigger level voltages are set equal and identical waveforms applied.

1 After calibration and within the range of 100 mV or 8% of signal peak (whichever is greater).

NOISE TRIGGER ERROR: $\sqrt{e_i^2 + e_n^2}$ volts

where e_n = effective rms noise of the 5363B input (typically 125 μV)

e_i = rms input signal noise for a 350 MHz bandwidth

ENVIRONMENTAL: Operating temperature 0°C to 55°C.

SUPPLEMENTARY PERFORMANCE CHARACTERISTICS:
(Describing nonwarranted typical performance parameters.)

Effective Bandwidth: 350 MHz or 1 ns rise time.
Impedance: 1M ohms shunted by <20 pF.
Voltage Resolution: 10 mV.
Delay Compensation Range: 2 ns adjustable about 0.0 or 10.0 ns.
Outputs to Counter: Separate START and STOP outputs; -0.5V to +0.5V into 50 ohms, slew rate through zero volts exceeds 0.50V/ns.
Trigger Level Outputs: Trigger point setting ±75 mV.

GENERAL

Power: 100, 120, 220, 240V ac (+5%, -10%), 48-440 Hz; 40 VA max.
Weight: Net 3.0 kg (6.5 lbs). Shipping: 5.5 kg (12 lbs).
Dimensions: 88.1 mm H × 212 mm W × 295 mm D (3.5" × 8.4" × 11.6");
Probe length 122 cm (4 feet)

*Systematic error that can be eliminated with proper calibration and measurement techniques.