



Model 5105B

150MHz (1GS/s) Analog/ Digital Oscilloscope

Data Sheet

Model 5105B 150MHz (1GS/s) Analog/ Digital Oscilloscope

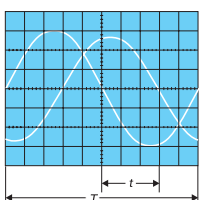
The model 5105B is a 150 MHz (1GS/s) Analog/Digital Storage Oscilloscope. It is a high performance 150MHz analog oscilloscope with the capability to digitize and store waveforms with its 1GS/s A/D Converters. After the digital acquisition the data can be manipulated and displayed for examination.

The digital capabilities offer the ability for one shot events, you can see what happened before the trigger. After acquisition, the data can be manipulated and displayed in many different ways. You can change time base or vertical position. You can select which portion of a waveform you'd like to look at in more depth. You can compare the measured waveform to a "known good" waveform in memory.

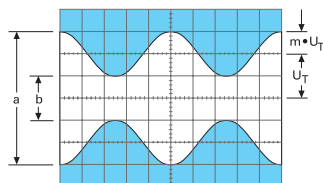
- 1GS/s Real time sampling
- Auto set
- Save/recall
- Readout cursors
- Time base 50s to 5ns
- 8-Bit low noise flash A/D converters
- Pre and post trigger – 100% to +400%
- Acquisition modes: Single Event, Refresh, Average, Envelope, Roll, Peak-Detect
- RS-232 Interface



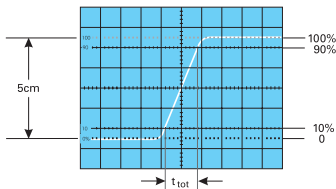
Phase Measurement



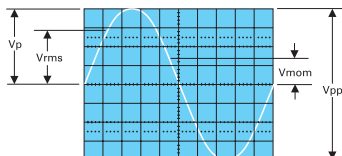
AM Modulation



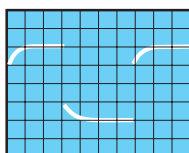
Rise Time



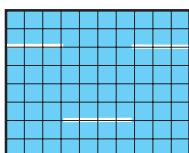
Sin Wave Signal



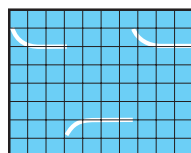
Pulse Wave



Without BNC























With BNC



Without BNC

Component Test

Single components	Single Transistors
 Short circuit	 Resistor 510Ω
 Main transformer primary	 Capacitor 33μF
 Junction B-C	 Junction B-E
 Junction E-C	 FET
Single Diodes	In-circuit Semiconductors
 Z-Diode below 7V	 Z-Diode beyond 7V
 Silicon diode	 Germanium diode
 Rectifier	 Thyristor, G + A together
 Diode paralleled by 680Ω	 2 Diodes antiparallel
 Diode in series with 51Ω	 B-E parallel by 680Ω
 B-E with 1μF-680Ω	 Si-Diode with 10μF