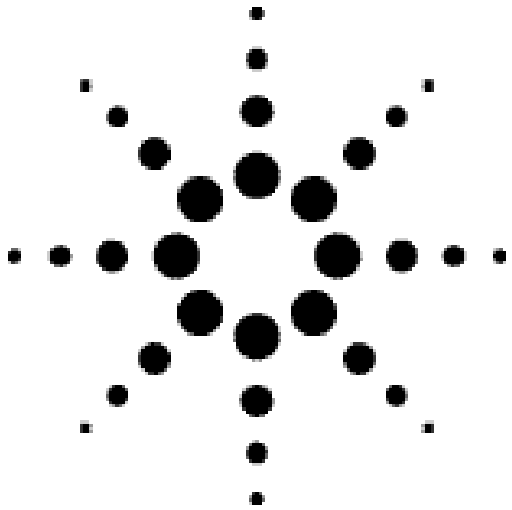

Agilent Technologies 5361B Pulse/ CW Microwave Counter

Data Sheet

Product Specifications

Input Characteristics

	Input 1 (50 Ù)	Input 2 (1 MÙ)	Input 2 (50 Ù)
Frequency range	500 MHz to 20, 26.5, 40 GHz	10 Hz to 10 MHz to 80 MHz	525 MHz
Sensitivity	25 mV rms	25 mV rms	
0.5 to 12.4 GHz	−28 dBm		
12.4 to 20 GHz	−23 dBm		
0.5 to 26.5 GHz (Opt 026, 040)	−20 dBm		
26.5 to 40 GHz (Opt 040)	0.37 x f (in GHz) −29.8 dBm		

Frequency (Input 1)

Automatic and Manual Acquisition: 500 MHz to 20 GHz; 500 MHz to 26.5 GHz (Option 026); 500 MHz to 40 GHz (Option 040)

Least Significant Digit: 1 MHz to 1 Hz for frequency, 0.001 Hz for PRF

Pulse Frequency Measurements
- Pulse width (minimum): manual mode, 60 ns; auto mode, 100 ns
- Pulse rep freq: minimum 1 Hz; maximum 2 MHz
- Measurement time, resolution, accuracy: See datasheet

CW Frequency Measurements
- FM tolerance: 55 MHz peak-to-peak
- Tracking speed (fast acquisition): 800 MHz/s
- Acquisition time: Manual mode, <40 ms; automatic mode, fast acq., <100 ms
- Gate times (1 Hz resolution): 200 to 1000 ms
- Measurement time: >8.5 ms (in Dump Mode)
- Accuracy: See datasheet

Pulse Parameters (Input 1)

	Pulse Width	PRI	Offtime	PRF
Min./Max.	60 ns/10 ms	500 ns/1 s	400 ns/1s	1Hz/2 MHz to 0.001 Hz
LSD	(PW <1 ms) 1 ns;(PW			

Agilent Technologies
Innovating the HP Way

www.valuetronics.com

>
) 100 nx
Accuracy: ±(20 nx + timebase uncertainty x ± (20 nx) x (PRF)^2
(100 ave.) measurement ±LSD ±LSD ±timebase uncertainty

Profile (Input 1)
Frequency Range (min/max for Y axis): 500 MHz/40 GHz
FM Chirp Tolerance (max span for Y axis): 50 MHz peak-to-peak
Time Range (min/max span for X axis): 100 ns/10 ms; 1 ns resolution
Internal Gate Width: Minimum 11 ns to 23 ns; typical minimum: 14 ns
External Gate Width: Minimum: Manual acquisition 20 ns;auto acquisition 60 ns
Number of Data Points: Up to 100

Profile Frequency Measurements
Printers supported: HP 2225A, HP 227B, HP 3630A Opt 002
Profile phase measurements: See Application Note 377-4 for details. Computer required.

Frequency (Input 2)
Range: 10 Hz to 525 MHz
Accuracy: 0.001 Hz to 1 Hz
Resolution/LSD: 0.001 to 1 Hz

www.valuetronics.com