Agilent 5384A Frequency Counter

Data Sheet

Channel A Characteristics

Range: 10 Hz to 100 MHz

Sensitivity: [MAIN LEVEL] off
15 mVrms sine wave 50 Hz to 100 MHz
25 mVrms sine wave 10 Hz to 50 Hz
45 mV pk-pk 5 ns minimum pulse width

Dynamic Range: 45 mV to 4 V pk-pk × attenuator setting.

Coupling: AC

Impedance:
X1: 1 Mohm NOMINAL | | <25 pF
X20: 500 kohm NOMINAL | | <25 pF

Attenuator: X1 or X20 NOMIONAL, X20 increases to X40 below 50 Hz

Low Pass Filter: 100 kHz NOMINAL 3 dB point

Channel B Characteristics

Range: 50 to 225 MHz

Sensitivity: 10 mVrms 50 to 200 MHz, 15 mVrms 200 to 225 MHz

Dynamic Range: 10 mV to 1 Vrms

Coupling: AC

Impedance: 50 ohm NOMINAL

Attenuator Level:

Manual: variable from X1 to X5 (0 to 14 dB) NOMINAL

Auto: AGC mode for improved noise suppression.

Damage Level: 350 VDC + 5 Vrms AC

Timebase

Frequency: 10 MHz

Aging Rate: <3 × 10e-7/mo.

Temperature: <5 × 10e-6, 0 degrees to 50 degrees C. Ref. to 25 degrees C.

Line Voltage: <1 × 10e-7 for ±10% variation.

Frequency A and B

Range Channel A: 10 Hz - 100 MHz

Range Channel B: 50 MHz - 225 MHz

LSD Displayed: 10 Hz to 1 nHz

LSD ((4 nsec) / (Gate Time)) × FREQ

Resolution: ±1 LSD ± ((1.4 × Trigger Error + 1 nsec rms) / (Gate Time)) × Freq

Accuracy: ± Resolution ± Time Base Error × Period


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