



# Agilent 5385A 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  $\times$  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

**Fused input! (Front panel accessible)**

**Range:** 90 to 1000 MHz

**Sensitivity:**

10 mVrms (-27 dBm) 100-1000 MHz

15 mVrms (-33 dBm) 90-100 MHz

**Dynamic Range:** 10 mV to 7 Vrms (-27 to +30 dBm)

**Coupling:** AC

**Impedance:** 50 ohm NOMINAL

**Attenuator Level:**

**Manual:** variable from X1 to X18 (0 to 25 dB) NOMINAL

**Auto:** AGC mode for improved noise suppression.

**Damage Level:**AC > 1 MHz +30 dBm (7 V<sub>rms</sub>)AC <1 MHz 2 V<sub>rms</sub>

DC ± 5V

**Timebase (TCXO)****Frequency:** 10 MHz**Aging Rate:** <1 × 10<sup>-7</sup>/mo.**Temperature:**<2 × 10<sup>-6</sup>, 0-40° C(± 1 × 10<sup>-6</sup>, 0-40° C if referenced to 25° C, and set to the offset frequency.)**Line Voltage:** <5 × 10<sup>-8</sup> 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**Powertronics**

Venda, locação e manutenção.

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