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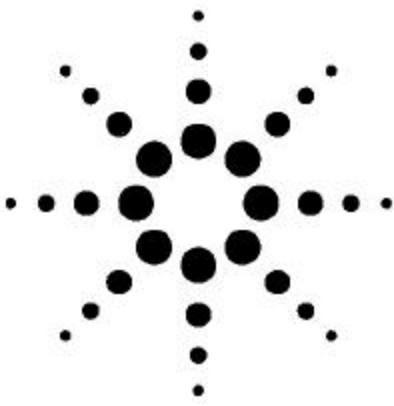
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# Agilent 5385A Frequency Counter

## 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 &gt; 1 MHz +30 dBm (7 Vrms)

AC &lt;1 MHz 2 Vrms

DC ± 5V

**Timebase (TCXO)****Frequency:** 10 MHz**Aging Rate:**  $<1 \times 10^{-7}/\text{mo.}$ **Temperature:** $<2 \times 10^{-6}$ , 0-40° C $(\pm 1 \times 10^{-6}$ , 0-40° C if referenced to 25° C, and set to the offset frequency.)**Line Voltage:**  $<5 \times 10^{-8}$  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**  $((4 \text{ nsec}) / (\text{Gate Time})) \times \text{FREQ}$ **Resolution:**  $\pm 1 \text{ LSD} \pm ((1.4 \times \text{Trigger Error} + 1 \text{ nsec rms}) / (\text{Gate Time})) \times \text{Freq}$ **Accuracy:**  $\pm \text{Resolution} \pm \text{Time Base Error} \times \text{Period}$ 