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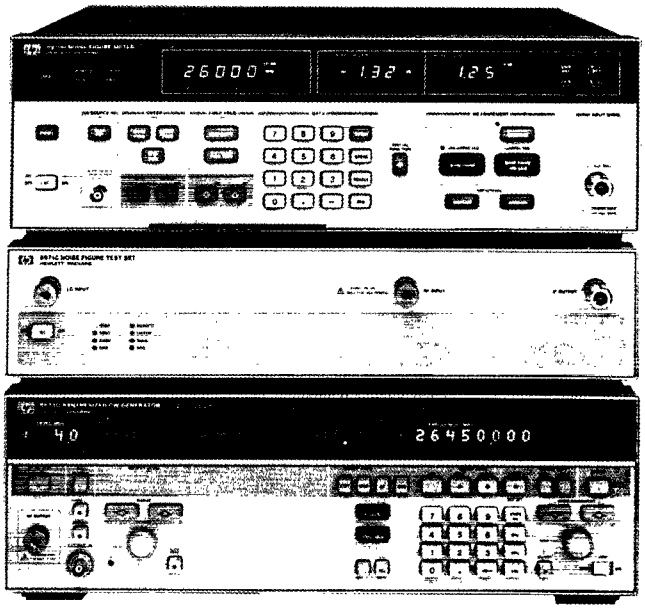
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NOISE FIGURE METER

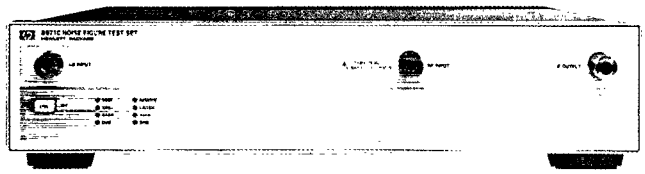
Noise Figure Measurement System

HP 8970S/U, 8971C



HP 8970S/U

- 10 MHz to 26.5 GHz
- Fully specified system
- Removes double-sideband inaccuracies
- As easy to operate as the HP 8970A or B



HP 8971C

HP 8970S/U Microwave Noise Figure Measurement Systems

Until now, there was no standardized way to make microwave noise figure measurement, so users had to design and support their own microwave systems. Measurements crossing from RF to microwave were difficult because they required multiple system configurations.

Hewlett-Packard's answers to these problems are the HP 8970S and HP 8970U noise figure measurement systems. Each system consists of the HP 8970B Noise Figure Meter, the new HP 8971C Noise Figure Test Set, and a synthesized local oscillator. (The recommended LOs for the HP 8970S are listed in the HP 8970S Partial Specifications; the HP 8970U uses the HP 8673G Synthesized CW Generator as its local oscillator.)

The HP 8970S/U systems eliminate the tedious job of designing the measurement system and selecting components. The HP 8970B acts as the controller, so all system operation is transparent to the user. To ensure specified performance, the HP 8970S/U systems are given specifications just like an RF noise figure meter (i.e, the HP 8970B).

HP 8970S/U Partial Specifications

(See HP 8970S technical data sheet for complete specifications.)
Frequency range: 10 MHz to 26.5 GHz
Noise figure measurement range: 0 to 30 dB
Noise figure instrumentation uncertainty (for a 14 to 16 dB ENR noise source in a 10° to 40° C environment and for device under test noise figure plus gain greater than 10 dB):
10 MHz to 18 GHz: ±0.2 dB (plus typical drift of ±0.015 dB/° C)
18 to 26.5 GHz: ±0.4 dB (plus typical drift of ±0.08 dB/° C)
Gain instrumentation uncertainty: ±0.28 dB (plus typical drift of ±0.05 dB/° C, 10 MHz to 18 GHz
±0.07 dB/° C, 18 to 26.5 GHz
Noise figure (max):
10 to 30 MHz: 18 dB
30 to 100 MHz: 13 dB
0.1 to 12 GHz: 10 dB
12 to 18 GHZ: 11.5 dB
18 to 26.5 GHz: 14 dB
Input SWR: 10 MHz to 18 GHz: 2.25
18 to 26.5 GHz: 2.7
Recommended local oscillators: HP 8671B, 8672A, 8673B/C/E/G, 8340B, 8341B, 83620A, 83622A, 83640A, and 83642A

HP 8971C Noise Figure Test Set

The HP 8971C Noise Figure Test Set brings the simplicity of double-sideband measurements and the accuracy of single-sideband measurements together in one package. Careful design and high performance components, including a stable YIG filter, allow broadband single-sideband measurements from 10 MHz to 26.5 GHz with a single calibration and sweep. A low-noise preamplifier built into the Noise Figure Test Set lowers the second-stage noise figure, thereby reducing a major source of measurement uncertainty.

Measurement modes in the HP 8970B allow for double down-conversion using the HP 8971C as the second down-converter. These modes can be used for millimeter-wave measurements of amplifiers and transistors and measurements of receivers and mixers with IFs above 1.6 GHz.

HP 8971C Partial Specifications

(See HP 8970S technical data sheet for complete specifications.)
Frequency range: 10 MHz to 26.5 GHz
Input SWR:
10 MHz to 18 GHz: 2.25
18 to 26.5 GHz: 2.7
Image and odd-harmonic rejection: 20 dB
Accessories supplied:
1 LO-to-HP 8971B cable — SMA(female), 300 mm
1 HP 8971B-to-HP 8970B cable — N(male), 190 mm
1 N(male)-to-SMA(male) adapter
2 HP-IB cables — .5 m

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