

SWEEP OSCILLATORS

Model 8620 Series: 10 MHz to 22 GHz

Model 8620 Series

- Broadband, straddle-band and single-band plug-ins
- External phase-lock capability
- High Output Power, > 10 mW to 22 GHz
- Internal Leveling Standard



HP 8620C with HP 86222B, 86290B

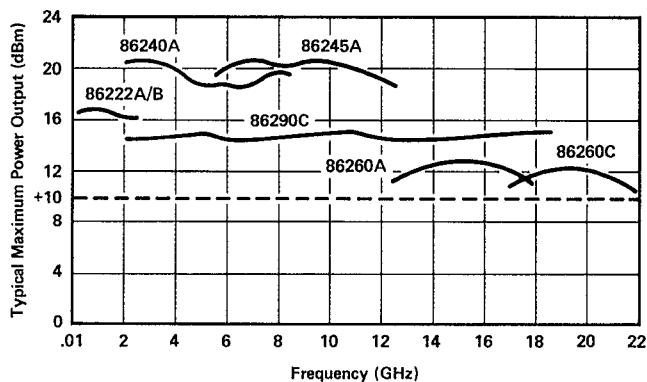
HP 8620 Sweeper System

The HP 8620 solid-state sweeper system offers the flexibility of the HP 8620C mainframe in addition to a wide choice of broadband, straddle-band, and single-band plug-ins. The HP 8620 system also offers high output power with solid-state reliability; greater than 10 mW (levelled) to 22 GHz.

The fundamental oscillators used in the plug-ins are YIG-tuned-transistor or bulk-effect circuits. YIG tuning results in exceptional tuning linearity, low noise, and low spurious content. It also allows frequency modulation at high rates and wide deviations with low distortion.

Combining flexibility, powerful features, and reliability, the HP 8620 system is useful in network analysis, signal simulation, or local oscillator applications.

TYPICAL UNLEVELLED POWER OUTPUT



HP 8620C Sweeper Mainframe

The HP 8620C has many features highly useful in stringent applications. With convenient functionally-grouped controls and lighted pushbutton indicators, the mainframe offers ease of operation and flexibility. Additionally, it can be an HP-IB programmable source for automatic system and signal simulation applications.

HP 86222A/B and 86290B/C Broadband Plug-Ins

The 10 MHz to 18.6 GHz frequency range can be covered with just two plug-ins, the HP 86222A/B and 86290B/C. Besides their broad frequency ranges, these plug-ins offer many special features including unique crystal markers in the HP 86222B and better than ± 30 MHz frequency accuracy in the HP 86290B/C.

HP 86240A/B/C and 86251A Straddle-Band Plug-Ins

Covering more than an octave of frequency, the HP 86240A/B span 2 to 8.4 GHz and the HP 86251A spans 7.5 to 18.6 GHz (covering the primary TWT amplifier frequencies) with major advances in power output and spectral purity. The HP 86240A offers more than 40 mW while the HP 86251A provides over 10 mW of levelled output power across their full bands. All three plug-ins deliver high-quality test signals of low harmonic content, with the HP 86240B providing harmonics less than -45 dBc. This can be very important when making multi-octave measurements.

HP 86200 Series Single-Band Plug-Ins

The HP 86200 series of plug-ins covers the frequency spectrum from 1.7 to 22 GHz with a choice of eight plug-ins.

Plug-In Compatibility with the HP 8350B Mainframe

The entire line of HP 86200 series plug-ins can be used in the HP 8350 Sweep Oscillator mainframe using the HP 11869A Adapter.

