

HP 8648B RF Signal Source

The HP 8648B RF signal source is used in several of the labs to provide the test signal. The output of the HP 8648B RF signal source is a sine wave at the selected frequency and amplitude. In addition, the signal can be modulated by either an FM or AM signal. A sketch of the front panel of the HP 8648B RF signal source is shown in Fig. 3-1.

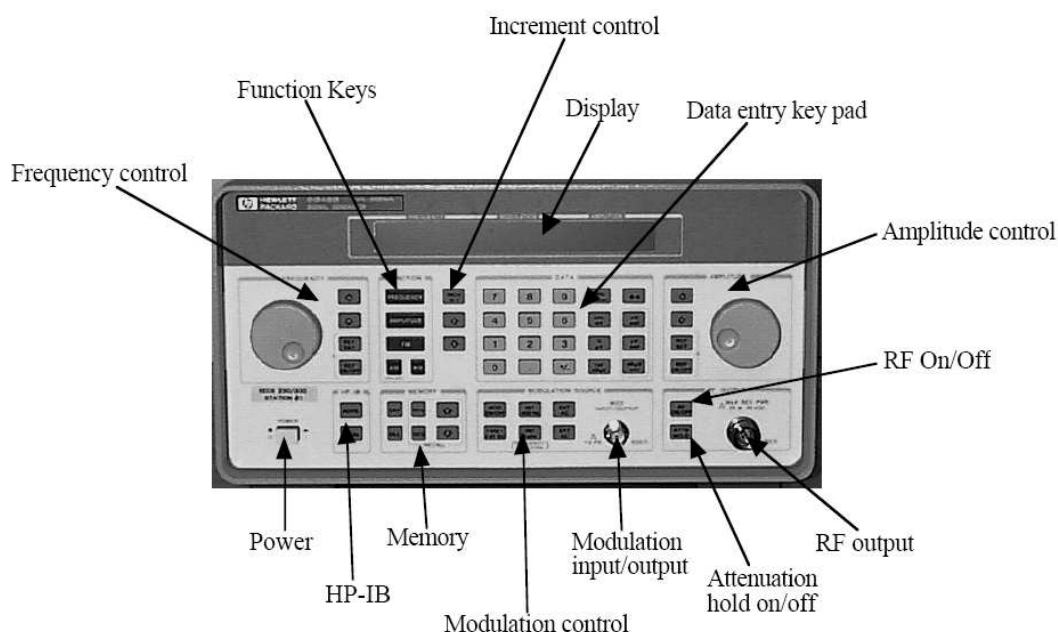


Figure 3-1: HP 8648B RF Signal Source front panel

C-1 LIST OF PROCEDURES

The procedures used in the processes of making measurements with the HP 8648B oscilloscope in the various labs are listed in this section for easy referencing.

The procedures listed use specific numerical examples. Substitute the desired numerical value when performing the procedure.

Adding A 1 kHz, 50% AM Modulation

- Press **INT1 kHz**
- Press **Press Mod On/Off** until modulation is *On*
- Press **AM** followed by **5 0 % μ V**

Changing The frequency

- Press **Frequency** followed by the desired frequency (e.g. **5 0 0**) followed by **kHzmV**

Configuring The HP 8648B To Output A 0 dBm, Non-Modulated, 50 kHz Signal

- Press **Mod On/Off** until the modulation is turned *Off*
- Press **Amplitude** followed by **0** **MHz2dB(m)** to set the amplitude to 0 dBm.
- Press **Frequency** followed by **5** **0** **kHzmV** to set the output frequency to 50 kHz.
- Press **RF On/Off** until the RF output is *On*

If at any point you make a mistake entering a number, you can use the **←** key to delete the last number entered.