



THE TYPE 1360-B MICROWAVE OSCILLATOR



An improved model of the popular TYPE 1360 Microwave Oscillator is now in production. Amplitude and frequency stabilities of the carrier under square-wave-modulated conditions have been markedly improved by a diode clamp circuit in the klystron repeller modulator. In addition, regulation of the supply voltage for the 1-kc square-wave generator has stabilized the modulation frequency. These improvements are particularly valuable to those customers who will use the oscillator with the TYPE 1640-A Slotted Line Recorder

System.¹ The stringent stability requirements on amplitude and modulation frequency in this system are due to the large available scale expansion² and the narrow audio bandwidth of the selective amplifier.

The accompanying figure is a graphic record showing the short-term amplitude stability of the new TYPE 1360-B Oscillator incorporated in a TYPE 1640-A system. The scale expansion is 1% full scale (1.01 VSWR). The line voltage was varied from 110 to 120 volts at a rate of 1 cycle per second by means of a Variac[®] autotransformer driven by a Type 1750-A Sweep Drive.

¹ To be described in a forthcoming issue of the *General Radio Experimenter*.

² A. E. Sanderson, "A New High Precision Method for the Measurement of the VSWR of Coaxial Connectors," *IRE Transactions on Microwave Theory and Techniques*, November, 1961.

— G. P. McCouch

Type		Price
1360-B	Microwave Oscillator	\$1175.00

Type 1360-B amplitude stability in presence of 10-volt peak-to-peak line-voltage excursions at 1-cycle rate as measured in a Type 1640-A Slotted Line Recorder System.

