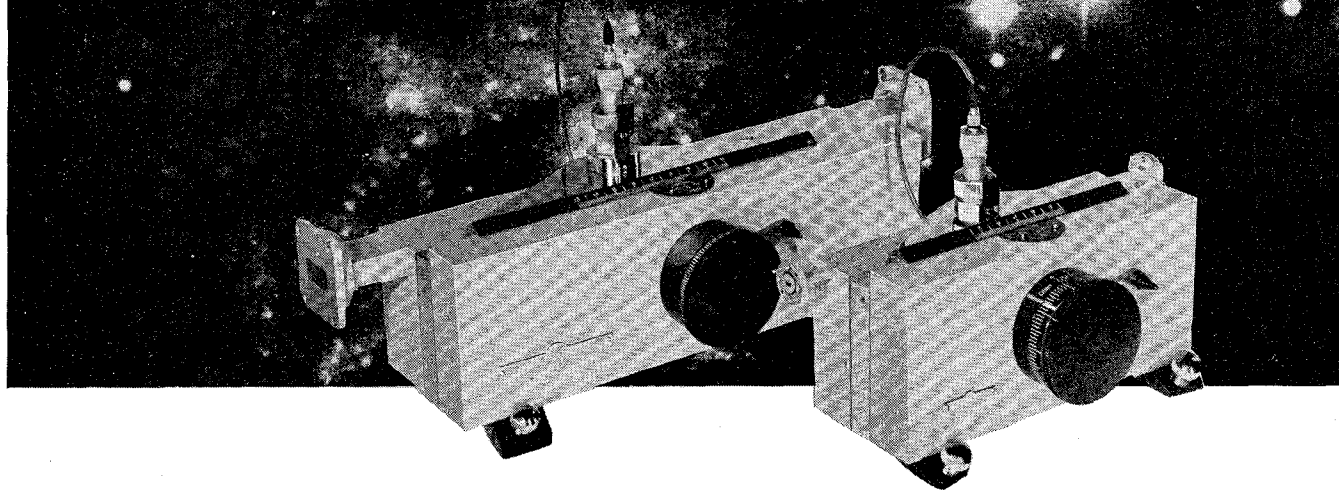


slotted line performance...?



—here are design parameters uniquely defined

Note how comprehensively D-B parameters cover all requirements of a standing wave detector.

D-B units are designed for unprecedented accuracy, repeatability, and operator convenience. They're built with high-precision parts, under close quality control. Attractively styled and fully guaranteed, they have achieved a tremendous acceptance by the industry.

Interchangeability with precision. Any D-B unit will handle adjacent frequency bands by using a different size waveguide block and probe. You can make the change in 30 seconds, with no loss whatever in alignment accuracy.

Complete range of sizes—10 models cover from 5.85 KMC to 140 KMC—or you can purchase interchangeable blocks and probes to extend the range of any model, at a saving.

Uniformity of waveguide surfaces. D-B provides a high internal surface uniformity by precision machining its millimeter waveguides, and using carefully selected precision waveguide for lower-frequency units. This construction insures a uniform path for measured waves, thus minimizing residual VSWR.

Slot excitation is negligible, resulting in minimum RF leakage—another reason why residual VSWR is very low.

Probe impedance is properly matched to the waveguide. Uniform probe penetration is pro-

vided by a fast, convenient slope adjustment, made in a few minutes.

Adequate probe travel ($\geq 1\frac{1}{2} \lambda_g$) available at all frequencies. Operator can read at least 3 maxima and 3 minima of VSWR.

Efficient mechanical translation. D-B mechanism functions with exceptional smoothness, giving the unit a definite instrument "feel." Five point kinematic carriage suspension insures excellent linearity of probe motion.

Vernier readout on knob periphery permits reading of probe travel to .01mm without mounting of costly accessories.

Continuously variable drive ratio changes carriage travel from "vernier" to "fast"—a time saver during rapid measurements.

Direct phase readout. Phase shift may be measured accurately on the calibrated knob, which reads percentage of 180° directly.

For complete data, see your D-B Catalogue, or request folder DB-825.



Interchangeable waveguide blocks. Each realigns perfectly to probe travel in a few seconds.



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