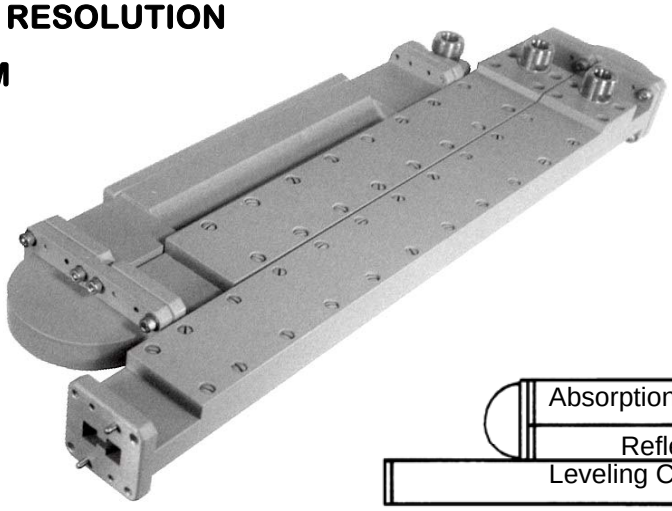
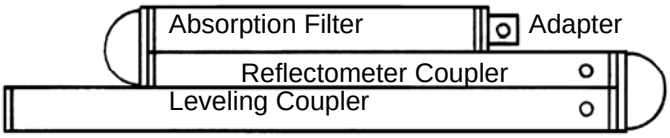
DOUBLE-RIDGE WAVEGUIDE REFLECTOMETER TEST SETS
R810 SERIES

DATA SHEET No. T80A

- 0.1 dB INSERTION LOSS RESOLUTION
- COMPLETE SUB-SYSTEM
- FULL BAND
- SMALL SIZE
- CONVENIENCE





DESCRIPTION

MEC Reflectometer Test Sets reduce set-up time while facilitating state-of-the-art resolution broadband return and insertion loss measurements on double-ridge waveguide and coaxial components. Coaxial input is provided via a broadband, low VSWR Waveguide-to-Coaxial Adapter for connection to a sweep signal source. This is followed by a low loss broadband Absorption Filter which suppresses harmonic and spurious frequencies often found in sweep signal sources. Because of this high attenuation (typically 50 dB), fine grain is reduced over the full waveguide band, permitting insertion loss resolution in the order of 0.1 dB to be easily measured. A 20 dB Leveling Coupler is next included to supply a source of feedback for the sweep oscillator. The Test Set is completed by a 10 dB high directivity broadband Reflectometer Coupler with MEC-C1 flange (cover type with alternate tapped and clearance holes) to which the device under test is attached for return or insertion loss measurements. Assemblies are precision machined from aluminum with coaxial connectors of stainless steel. Finish is chromate conversion with gray epoxy enamel.

SPECIFICATIONS

Insertion Loss Resolution: 0.1 dB
System Directivity: 35 dB min., 40 dB typ.

MODEL	FREQUENCY (GHz)	WAVEGUIDE SIZE
R810	7.5-18.2	WRD-750D24
R817	6.5-18.2	WRD-650D28
R818	5.8-16	WRD-580D28
R811	4.75-11	WRD-475D24
R812	3.5-8.2	WRD-350D24
R819	4.8-11	DR-19
R813	2.0-4.8	WRD-200

ORDERING INFORMATION

(1) Order by model number.
(2) Specify type N or SMA female or precision 7mm connector desired for each coaxial port.
(3) Coaxial components can be measured by adding a broadband, low VSWR waveguide-to-coaxial adapter to the reflectometer coupler main line port. Specify R40A Series adapters.
(4) Custom designed test sets available on request.

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