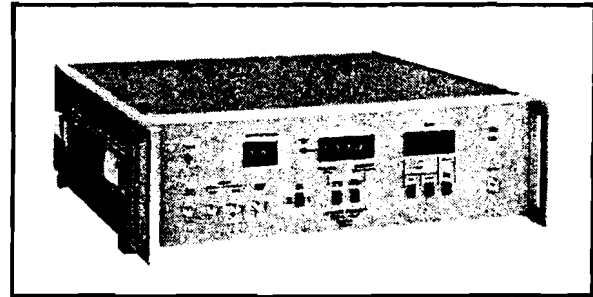




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Model 4647
IF Noise Test Set



Scientific
Atlanta

measurements and/or as a general purpose reference source.

1.3.5 An optional IEEE-488 Interface is available when remote computer control of signal conditioning such as provided through the circuits of the Model 4647 IF Noise Test Set is desired. When this feature is provided, bus connections are made through an EIA Standard 25-pin rear panel connector. Signal levels and pin connections at this connector comply with the IEEE-488/1975 Standard.

1.3.6 The Model 4647 IF Noise Test Set can be installed in a conventional 19-inch bay when desired by using the optional Rack Mounting Kit, Scientific-Atlanta Part No. 220119.

1.4 TECHNICAL CHARACTERISTICS

1.4.1 A summary of the technical specifications applicable to the features of the Model 4647 IF Noise Test Set are listed in Table 1-1.

**Table 1-1
Technical Specifications**

Feature	Specification
NOISE OUTPUT Band limited white noise Frequency Flatness Effective Noise Bandwidth Power (N_o) Minimum Attenuation Maximum Attenuation Accuracy Attenuator Range Crest Factor	50 to 90 MHz ± 0.25 dB 48.2 MHz -73 dBm/Hz -136.9 dBm/Hz -73 to -93 dBm/Hz: ± 0.5 dB -93.1 to -136.9 dBm/Hz: ± 1.0 dB 0 to 63.9 dB in 0.1 dB increments 15 dB Nominal
CARRIER AMPLIFIER Frequency Input Power Output Power Attenuator Impedance Return Loss Group Delay Amplitude Response	50 to 90 MHz +10 to -30 dBm +10 to -89 dBm 0 to 59 dB in 1 dB increments 75 ohms >26 dB ± 0.25 ns ± 0.1 dB

Table 1-1 - continued

Feature	Specification
AGC AMPLIFIER Frequency Input Power Output Power Return Loss Amplitude Response AGC Speed	50 to 90 MHz 0 to -12 dBm -12 dBm (+0, -1.0 dB) >26 dB ±0.1 dB >100 dB/sec
70 MHz OUTPUT Frequency Power Impedance Return Loss	70.0 ±0.01 MHz 0 ±0.2 dBm 75 ohms >26 dB
POWER DISPLAY Accuracy Noise (N_o) Carrier Input Output	-73 to -93 dBm/Hz: ±0.5 dBm -93.1 to -136.9 dBm/Hz: ±1.0 dB +10 to -30 dBm: ±0.3 dB +10 to -30 dBm: ±0.5 dB -30 to -89 dBm: ±.75 dB
OUTPUT PORT Impedance Return Loss	75 ohms >26 dB
TEMPERATURE	+10° to +40°C +50° to 104°F
DIMENSIONS	5.25H, 19D, 17W inches
WEIGHT	30 lbs
POWER REQUIREMENT	115/230V; 50/60 Hz