



## SPECIFICATIONS

<b>Frequency Range:</b>	20, kc. Spectrum level is uniform from 20 cps to 20 kc within $\pm 1$ db. 500 kc. Spectrum level is uniform from 20 cps to 500 kc within $\pm 3$ db. 5 Mc. Spectrum level is uniform from 20 cps to 500 kc within $\pm 3$ db and from 500 kc to 5 Mc within about 15 db. Noise energy is also present beyond these limits. The level is down approximately 3 db at 5 cps.
<b>Output Voltage:</b>	Max open-circuit output is at least 3 volts for 20-kc range, 2 volts for 500-kc range, <b>and 1 volt</b> for 5-Mc range.
<b>Typical Spectrum Level (with one volt output):</b>	<b>20-kc band. 5 mv for 1-cps band.</b> 500-kc band. 1.2 mv for 1-cps band. 5-Mc band. 0.6 mv for 1-cps band.
<b>Output Impedance:</b>	Source impedance for max output is approx 900 ohms. Output is taken from a 2500-ohm potentiometer. Source impedance for attenuated output is 200 ohms. One output terminal is grounded.
<b>Waveform:</b>	Noise source is a gas tube that has good normal or Gaussian distribution of amplitudes for narrow ranges of the frequency spectrum. Over wide ranges the distribution becomes less symmetrical because of dissymmetry introduced by the gas tube. Appreciable clipping occurs on the 500-kc and 5-Mc ranges.
<b>Voltmeter:</b>	Rectifier-type average meter measures output. It is calibrated to read r-m-s value of noise.
<b>Attenuator:</b>	Multiplying factors of 1.0, 0.1, 0.01, 0.001, and 0.0001. Accurate to $\pm 3\%$ to 100 kc, within $\pm 10\%$ to 5 Mc.
<b>Accessories Supplied:</b>	Power cord, spare fuses, extensions for relay-rack mounting.
<b>Mounting:</b>	Metal cabinet.
<b>Power Supply:</b>	105 to 125 ( <b>or</b> 210 to 250) <b>volts</b> , 50 to 60 cps.
<b>Power Input:</b>	About 50 watts.
<b>Tubes Supplied:</b>	6D4(1), 6AQ5 (2), 3-4 (1), 115N030T (1).
<b>Dimensions:</b>	Width 12-3/4 in., height 7-1/2 in., depth 9-3/4 in. (325 by 195 by 250 mm). Panel height for 19-inch relay-rack mounting is 7 inches.(485 by 180 mm).
<b>Weight:</b>	12 lb (5.5 kg) (bench mounting).