

A.P.67166 NOISE GENERATOR, (15 kc/s - 100 Mc/s), CT82

(Joint-service Designation:- Noise Generator, CT82)

SUMMARY OF DATA

PURPOSE

Measurement of noise factor of wireless receiving equipment, metric radar receivers and radar wide-band I.F. amplifiers, in the band 15 kc/s - 100 Mc/s.

BRIEF DESCRIPTION

It is a portable instrument, (together with box, stowage, for flexible connectors and adaptors) suitable for servicing receivers in situ. Essentially the instrument consists of a pair of saturated diodes whose anode current fluctuations through a load resistor provides the output noise power; the noise output is controlled by altering the filament current of the diodes. Output matching arrangements are provided. The instrument includes a separate audio power meter for measuring output of communications receivers. The output meter is calibrated in decibels with respect to a purely arbitrary power reference-level.

PERFORMANCE

Frequency Coverage - 15 kc/s - 100 Mc/s.
 Output Impedance - 43, 75 or 400 ohms.
 Noise Factor Meter (Diode Current).

The following scales are provided:-

- 0 to 10 mA or 0 to 100 mA by switch.
- 43 ohms noise factor scale 0 to 9 dB.
- 75 ohms noise factor scale 0 to 11 dB.
- 400 ohms noise factor scale 0 to 4 dB.
- (10 dB is added when switch is at "100 mA")

Audio Power Output Meter Calibrated 0 to 16 dB. Switch provides high, medium or low input impedance.

POWER REQUIREMENTS

115, 180, 200, 210, 220, 230, 240, 250V, 50 to 500 c/s single phase.
 50W (approx.)

PHYSICAL DATA

A.P.67166 Noise Generator	<u>HEIGHT</u>	9½"	<u>WIDTH</u>	11"	<u>DEPTH</u>	8½"	<u>WEIGHT</u>	21 lb
A.P.60875A Box of Flexible Connectors	<u>HEIGHT</u>	8"	<u>WIDTH</u>	4½"	<u>LENGTH</u>	10½"	<u>WEIGHT</u>	3½ lb

HANDBOOK

B.R.1771(12)

ESTABLISHMENT LIST

E.1115

PRODUCTION SPECIFICATION

14142.



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