

A.P.63451 NOISE-GENERATOR. (100-600 Mc/s), CT207

Joint-Services Designation:- Noise Generator (100-600 Mc/s), CT207)

SUMMARY OF DATA

PURPOSE

Measurement of noise factor of wireless and radar receiving equipment in the band 100 to 600 Mc/s.

BRIEF DESCRIPTION

CT207 consists of two instruments - a Noise Generator and an Audio Power Meter - combined for convenience in a single transportable case. The Noise Generator consists of a temperature-limited coaxial diode (CV2341) held in a special valveholder, the noise power being developed in a resistor which terminates the coaxial line. The noise output is controlled by altering the filament current of the diode. A Diode Current Meter, with switched shunts, is provided with three decibel ranges and a milliampere calibration. The Audio Power Meter comprises a resistance network, a metal rectifier bridge and a D.C. meter. Two degrees of attenuation are provided. Connectors for standard equipments are contained in the lid.



NOISE-GENERATOR CT207

PERFORMANCE

Frequency Coverage 100 to 600 Mc/s.
 Output Impedance 75 ohms; V.S.W.R. better than 0.7 over whole frequency range.

Diode Current Meter

The following ranges are available:-

0 to 10 mA	1 to 11.7 dB.
0 to 25 mA	Add 4 dB to engraved dB scale.
0 to 100 mA	Add 10 dB to dB scale.
(0-10 mA x 10)	

Audio Power Meter

Input Impedance 600 ohms.
 Calibration Milliwatts (in 600 ohms) and decibels (reference level 1 mW in 600 ohms) in three ranges:-

0 to 5 mW	-4 to +6 dB (0 dB corresponds to 1 mW).
0 to 50 mW (0-5 mW x 10)	Add 10 dB to engraved dB scale.
0 to 500 mW (0-5 mW x 100)	Add 20 dB to dB scale.

POWER REQUIREMENTS AND CONSUMPTION

115, 180, 200, 210, 220, 230, 240 or 250V, 50 to 500 c/s single phase.

62 W maximum (approx.)

PHYSICAL DATA

Height 17½" Width 12½" Depth 13" Weight 39 lb (approx.)

ACCESSORIES

Connectors in lid.

Mains lead: A.P.67384.

Audio Output leads: A.P.5438 and A.P.63918.

For Receiver P116 (Type 691): Two connectors A.P.63909 and A.P.63994.

For Receivers P104, 62A and 62H: Connector A.P.63908.

OTHER SERVICE AND COMMERCIAL DESIGNATIONS

Joint-Services Designation: Noise Generator (100 - 600 Mc/s), CT207. No commercial equivalent.

HANDBOOK

B.R.1771(15).

ESTABLISHMENT LIST

E1115.

PRODUCTION SPECIFICATION

15565.