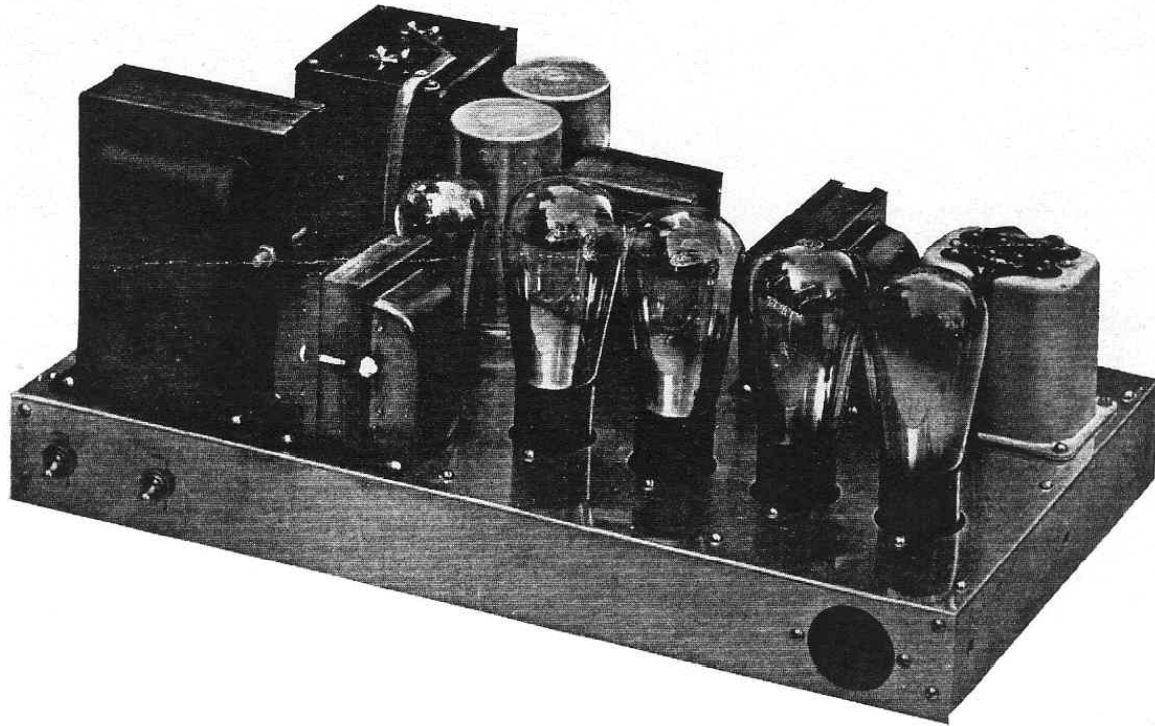


Collins Transmitters

Bulletin 105

Sheet 3

TYPE 9C AMPLIFIER-MODULATOR



THE 9C AMPLIFIER-MODULATOR UNIT is the result of a careful series of laboratory tests directed toward the design of a medium powered audio frequency amplifier of the Class B type. This Amplifier has been perfected to a point where its fidelity is comparable in every way to the best of Class A amplifiers. As a modulator the 9C Unit is equivalent to two 211 tubes Class A with 1,000 volts on the plate. By means of a special circuit and special transformers, all audio parasitic oscillation is prevented, and a smooth, well rounded tone quality results.

Tubes Employed — Two 245's are used in push-pull Class A to drive two 46's Class B. A type 82 mercury vapor rectifier is employed in the self-contained power supply.

Input Impedance — 500 ohms. Designed to be operated from the 90C Input Amplifier, or equivalent.

Output Impedance — 5,000 ohms standard. Also available in 500 ohms and other values on special order. The 5,000 ohm output is used when it is desired to modulate a 510 Class C modulated amplifier drawing 100 ma. at 500 volts.

Power Source — 110 volts, 60 cycles, a. c.

Maximum Power Output — 25 watts. Harmonic distortion is less than 5% at all output levels below the rated value.

Use — The 9C Unit is an ideal modulator for a medium powered radiophone transmitter such as the 30W or 40B. It is also used as a driving amplifier for exciting the grids of type 503A Class B modulators in a higher powered transmitter.

Price — Complete less tubes.....\$50.00