

Taylor



Tubes

814

200 WATTS PLATE DISSIPATION

CARBON ANODE

\$18.50



Type 814

RADIO AMATEURS'

FAVORITE

½ KW. CLASS C

TRANSMITTING TUBE

A three element tube (triode) exceptionally suitable as an oscillator for Therapeutic fever machines and R. F. Amplifiers in transmitters. Having a high transconductance a pair of these tubes with a kilowatt input for phone operation in a push pull Class C amplifier require only 60 watts of power on the grids to drive them to full efficiency. This tube is especially designed to give the most efficient output for the entire range of 10 to 160 meters.

GENERAL CHARACTERISTICS

Type 814

Filament Voltage, volts.....	10
Filament Current, amps.....	4
Plate Resistance, ohms.....	2400
Mutual Conductance, uMhos.....	5000
Amplification Factor	12

OVERALL DIMENSIONS

Maximum Length, inches	9½
Maximum Diameter, inches.....	2½

INTERELECTRODE CAPACITIES

Plate to Grid, mmf.....	13
Grid to Filament, mmf.....	7
Plate to Filament, mmf.....	5.5

CLASS "C" OSC. AND POWER AMP.

Max. Operating Plate Volts	
Unmodulated, D.C., volts.....	2500
Modulated, D.C., volts.....	2000
Max. D.C. Plate Current, mls.....	300
Max. D.C. Grid Current, mls.....	75
Max. Plate Dissipation, watts.....	200
Max. R.F. Grid Current, amps.....	8
Max. R.F. Output, watts.....	400

NORMAL OPERATION

$E_p = 2000$

$E_g = -400$

$E_f = 10$

The **Taylor 814** tube is designed especially for the Amateur. Because of the ever increasing QRM high power is essential if transmission with any degree of consistency is desired. A pair of 814s in push pull Class C will take a Kilowatt input and still leave a safety factor of 25% as far as plate dissipation is concerned.

Because of its high Mutual Conductance less driving power is required to obtain full excitation for phone operation. High voltage is not necessary to run this tube at full inputs. The 814s with 1500 volts on the plate can be run with inputs up to 1000 watts (2 tubes) with very excellent efficiency.

A condenser with a maximum capacity of 25 mmf having 6000 volt breakdown rating is necessary to neutralize this tube.

For C.W. an 814 as a Class C Amplifier will handle 600 watts input with ease and still maintain its 25% plate dissipation safety factor.

We highly recommend this tube for use on wavelengths from 10 to 160 meters.

SUPER CARBON ANODE

Length 2½ inches

Width 1½ inches

FLOATING ANODE

CARBON ANODES

PRODUCE

More Watts Per Dollar