R. F. Triode
For Operation at full input
crating up to 100 Mc/s
4356A

CATHODE.
Thoriated tungsten filament
Voltage 5 V
Nominal current 5 A
Peak emission 2 A

RATING.
Amplification factor \( \{ \) Measured at \( V_a 500 \text{ V} \) \( \} \) 45
Impedance \( \{ \) La 100 mA \( \} \) 12,000 \( \Omega \)

DIRECT INTER-ELECTRODE CAPACITIES.
Grid to anode 2.25 pF
Grid to filament 4.0 pF
Anode to filament 0.9 pF

DIMENSIONS.
Maximum overall length 133 mm.
Maximum diameter 63.5 mm.
Base Special
Net weight 100 g.

MAXIMUM CONDITIONS FOR SAFE OPERATION.
Maximum direct anode voltage 1,500 V
Maximum direct anode current 120 mA
Maximum anode dissipation 50 W
Maximum direct grid current 35 mA
Maximum frequency for above ratings 100 Mc/s
Maximum anode voltage for maximum
frequency limit of 250 Mc/s 1,000 V

The valve should be operated in a vertical position and a free
circulation of air must be provided to ensure adequate cooling of
the bulb. This is of particular importance when two or more
valves are used.

Tentative data
January 1946
TYPICAL OPERATING CONDITIONS.

RADIO FREQUENCY.

Class B Telephony. Modulated Carrier applied to Grid.
(Carrier conditions per valve for use with 100% modulation).

Direct anode voltage 1,500 V
Grid bias —30 V
Direct anode current 50 mA
Peak R.F. grid voltage peak of modulation cycle 145 V
Power output 25 W

Class C Power Amplifier. Anode subjected to modulation
(Carrier conditions per valve for use with 100% modulation).

Direct anode voltage 1,250 V max.
Grid bias —160 V
Direct anode current 100 mA
Peak R.F. grid voltage 290 V
Power output 88 W

Class C Power Amplifier or Oscillator, unmodulated.

Direct anode voltage 1,500 V
Grid bias —72 V
Direct anode current 100 mA
Peak R.F. grid voltage 190 V
*Direct grid current 22.5 mA (approx.)
Power output 100 W

* Subject to wide variation depending upon the impedance of the load circuit.
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3B/505E—3
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63.5 mm. DIA. MAX.

133 mm. MAX.

CENTRE TAP
FILAMENT

GRID

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