R.F. Triode
3C/150A

CATHODE.
Thoriated tungsten filament
Voltage 10 V
Nominal current 3.4 A
Peak emission 2.5 A

RATING.
Amplification factor 18
Impedance \{ 1a 150 mA \} 3,800 \Omega

DIRECT INTER-ELECTRODE CAPACITIES.
Grid to anode 7.3 pF
Grid to filament 8.6 pF
Anode to filament 1.1 pF

DIMENSIONS.
Maximum overall length 246 mm.
Maximum overall width 88 mm.
Base: Large 4-pin bayonet
Net weight 320 g.

MAXIMUM RATINGs.
Maximum direct anode voltage 2.5 kV
Maximum direct anode current 0.2 A
Maximum anode dissipation 150 W
Maximum RF grid current 10 A
Maximum frequency for above ratings 20 Mc/s
Maximum anode voltage for frequency of 60 Mc/s 2 kV

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TYPICAL OPERATING CONDITIONS.

AUDIO FREQUENCY.

Class B Power Amplifier or Modulator.
(Balanced two valve circuit).

Direct anode voltage | 2  | 2.5  | kV
Grid bias            | 100| 130  | V
Direct anode current per valve—
minimum signal       | 0.03| 0.03 | A
Direct anode current per valve—
maximum signal       | 0.19| 0.18 | A
Peak AF grid to grid voltage | 420| 460  | V
Load resistance anode to anode | 11,200| 16,000 | Ω
Power output—2 valves | 500| 600  | W approx.

RADIO FREQUENCY.

Class B Power Amplifier Telephony.
(Carrier conditions per valve for use with 100% modulation).

Direct anode voltage | 2  | 2.5  | kV
Grid bias            | 110| 140  | V
Direct anode current | 0.11| 0.09 | A
Peak RF grid voltage | 125| 150  | V
*Direct grid current | 0.5 | 0 mA approx.
Power output         | 80 | 80   | W approx.

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

Direct anode voltage | 1.75| 2    | kV
Grid bias            | 300 | 350  | V
Direct anode current | 0.2 | 0.16 | mA
Peak RF grid voltage | 475 | 500  | V
*Direct grid current | 30  | 20 mA approx.
Power output         | 270 | 250  | W approx.

Class C Power Amplifier or Oscillator, unmodulated.

Direct anode voltage | 2  | 2.5  | kV
Grid bias            | 250 | 300  | V
Direct anode current | 0.2 | 0.2  | A
Peak RF grid voltage | 410 | 455  | V
*Direct grid current | 23  | 18 mA approx.
Power output         | 300 | 380  | W approx.

* Subject to wide variation depending upon the impedance of the load circuit.

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