CATHODE.
Thoriated tungsten filament
Voltage \( V \)
Nominal current \( A \)
Peak emission \( A \)

RATING.
Amplification factor \( 17 \)
Impedance \( 1,500 \ \Omega \)

DIRECT INTER-ELECTRODE CAPACITIES.
Grid to anode \( 35 \ \text{pF} \)
Grid to filament \( 27 \ \text{pF} \)
Anode to filament \( 1.5 \ \text{pF} \)

COOLING.
Air blast for anode dissipation of 4.5 kW
Volume of air at a pressure of 1.5 inches of water \( 350 \ \text{cu. ft./min.} \)
Maximum radiator core temperature \( 130^\circ \ \text{C.} \)
Maximum ambient temperature \( 45^\circ \ \text{C.} \)

DIMENSIONS.
Maximum overall length \( 240 \ \text{mm.} \)
Maximum diameter over cooler \( 150 \ \text{mm.} \)

MAXIMUM RATINGS.
Maximum direct anode voltage \( 7 \ \text{kV} \)
Maximum direct anode current \( 2 \ \text{A} \)
Maximum anode dissipation \( 4.5 \ \text{kW} \)
Maximum grid dissipation \( 350 \ \text{W} \)
Maximum frequency for above ratings \( 22 \ \text{Mc/s} \)
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 5 kV
Grid bias —300 V
Direct anode current 1 A
Peak R.F. grid voltage at crest of modulation cycle 750 V
Power output 1.6 kW approx.

Class C Power Amplifier. Anode subject to modulation.
(Carrier conditions per valve for use with 100\% modulation).
Direct anode voltage 5 kV
Grid bias —750 V
Direct anode current 1.25 A
Peak R.F. grid voltage 1,170 V
Power output 4.4 kW approx.

Class C Power Amplifier or Oscillator, unmodulated.
Direct anode voltage 7 kV
Grid bias —650 V
Direct anode current 2 A
Peak R.F. grid voltage 1,100 V
*Direct grid current 0.35 A approx.
Power output 10 kW

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

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GRID
FILAMENT
FILAMENT
GRID
RADIAL FINS.

240 mm MAX:
70 mm MAX:
150 mm DIA: MAX:

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