CATHODE.
Thoriated tungsten filament
Voltage 10 V
Nominal current 80 A
Peak usable emission 35 A

RATING.
Amplification factor \( \{ \text{Measured at} \ V_a 2\text{kV}, I_a 2\text{A} \} \) 35
Impedance 1,400 \( \Omega \)

DIRECT INTER-ELECTRODE CAPACITIES.
Grid to anode 30 pF
Grid to filament 50 pF
Anode to filament 2.0 pF

COOLING.
Normal water flow 11 g.p.m.
Water Jacket type 3005C
Air cooling required when R.F. grid current exceeds 10 A per lead to be directed at grid seals through a fish-tail nozzle of 3" by \( \frac{1}{4} " \) orifice not less than 10 cu ft/min

DIMENSIONS.
Maximum overall length 355 mm
Maximum diameter 130 mm
Net weight 2,060 g

MAXIMUM RATINGS.
Maximum direct anode voltage 11 kV
Maximum anode dissipation 20 kW
Maximum grid dissipation 800 W
Maximum R.F. grid current per lead 30 A
Maximum frequency for above ratings 30 Mc/s

Tentative data
September 1948

3Q/260E—1
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 10 kV
Grid bias —300 V
Direct anode current 3 A
Peak R.F. grid voltage 540 V
Power output 10 kW

Class C Power Amplifier Anode subject to Modulation.
(Carrier conditions per valve for use with 100% modulation).
Direct anode voltage 8 kV
Grid bias —950 V
Direct anode current 4 A
Peak R.F. grid voltage 1,600 V
*Direct grid current 0.75 A approx.
Power output 20 kW

Class C Power Amplifier or Oscillator, Unmodulated.
Direct anode voltage 11 kV
Grid bias —700 V
Direct anode current 5 A
Peak R.F. grid voltage 1,400 V
*Direct grid current 0.8 A approx.
Power output 38 kW approx.

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

Tentative data
September 1948
Single Ended Water Cooled
R.F. Triode

ANODE VOLTAGE (kV)

GRID CURRENT (A)

ANODE CURRENT (A)

Tentative data
September 1948
Single Ended Water Cooled R.F. Triode

3Q/260E

FIL.
GRID
GRID
METAL RING.

130 mm
355 mm MAX.
168 mm
82 mm

Tentative data
September 1948