

FERRANTI TRIODE

An indirectly heated triode designed for use as a power amplifier in FM or other high frequency circuits. May also be used as Class 'C' RF Amplifier. It will operate efficiently at frequencies up to 150 Mc/s.

PHYSICAL DETAILS.

Base	...	...	B7G.
Max. Overall Length	...	...	54 mm. (2 $\frac{1}{8}$ in.).
Max. Seated Height	...	...	48 mm. (1 $\frac{7}{8}$ in.).
Max. Diameter	...	...	19 mm. ($\frac{3}{4}$ in.).
Mounting Position	...	...	Any.

BASE CONNECTIONS.

Pin 1—Anode.	Pin 5—Anode.
Pin 2—Internal Connection.	Pin 6—Grid.
Pin 3—Heater.	Pin 7—Cathode.
Pin 4—Heater.	

HEATER.

Heater Voltage	...	...	6.3 volts.
Heater Current	...	...	0.15 amp.

RATINGS.

	Class A ₁	Class C Telegraphy
Max. Anode Voltage	300	300 volts.
Max. Anode Dissipation	3.5	5.0 watts.
Max. DC. Grid Voltage	—	—50 volts.
Max. Grid Current	...	8.0 mA.
Max. R _{g-k}	1.0	— MΩ
Max. V _{h-k}	100	100 volts DC.

TYPICAL OPERATION.

CLASS A₁ AMPLIFIER.

Anode Voltage	...	100	250 volts.
Grid Voltage	...	0	—8.5 volts.
Anode Current	...	11.8	10.5 mA.
Mutual Conductance	...	3.1	2.2 mA/V.
Anode Impedance	...	6250	7700 ohms.
Amplification Factor	...	19.5	17

R.F. POWER AMPLIFIER. CLASS C TELEGRAPHY.

Anode Voltage (DC)	...	300 volts.
Anode Current	...	25 mA.
Grid Voltage (DC)	...	—27 volts.
Grid Current (DC)	...	7 mA.
Driving Power	...	0.35 watts (approx.).
Power Output	...	5.5 watts (approx.)*
	...	2.5 watts (approx.)*

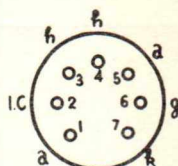
CAPACITANCES (With close fitting metal shield).

C _{in}	...	1.8 pF.
C _{out}	...	3.0 pF.
C _{a-g}	...	1.6 pF.

*At moderate frequencies.

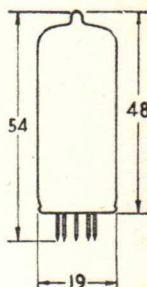
†At 150 Mc/s. with R_{g-k} = 10kΩ

EC90



Base
Connections

Underside View
of Base



All dimensions
shown are in
millimetres
(max.).



EC90

