

FERRANTI

VARIABLE-MU R.F. PENTODE

A directly heated Variable Mu Pentode, designed for use as an R.F. or I.F. Amplifier in Battery Operated Receivers. The filament is suitable only for DC. operation.

PHYSICAL DETAILS.

Base	...	...	...	B7G—All Glass.
Max. Overall Length	...	...	...	54.5 mm. (2 $\frac{1}{8}$ in.).
Max. Seated Height	...	...	...	47.5 mm. (1 $\frac{7}{8}$ in.).
Max. Diameter	...	...	...	19.0 mm. ($\frac{3}{4}$ in.).
Mounting Position	...	...	...	Any.

BASE CONNECTIONS.

Pin 1—Filament (–), and Suppressor Grid (g_3).	Pin 4—No Connection.
Pin 2—Anode.	Pin 5—Filament (–), and Suppressor Grid (g_3).
Pin 3—Screen Grid (g_2).	Pin 6—Control Grid (g_1).
Pin 7—Filament (+).	

FILAMENT.

Filament Voltage	...	...	1.4 volts.
Filament Current	...	...	50 mA.

RATINGS.

Max. H.T. Supply Voltage	...	90 volts.
Max. Anode Voltage	...	90 volts.
Max. Screen Voltage	...	67.5 volts.
Max. Control Grid Voltage	...	0 volts.
Max. Cathode Current	...	5.5 mA.

TYPICAL OPERATION (as R.F. or I.F. Amplifier).

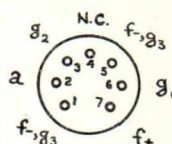
Anode Voltage	...	45	67.5	90	90	volts.
Screen Grid Voltage	...	45	67.5	45	67.5	volts.
Control Grid Voltage	...	0	0	0	0	volts.
Anode Current	...	1.7	3.4	1.8	3.5	μ A.
Screen Current	...	0.7	1.5	0.65	1.4	μ A.
Anode Impedance	...	350	250	800	500	k Ω
Mutual Conductance	...	700	875	750	900	μ A/volts.
V_{g_1} (for $g_m = 10 \mu$ A/V)	...	-10	-16	-10	-16	volts.

CAPACITANCES.

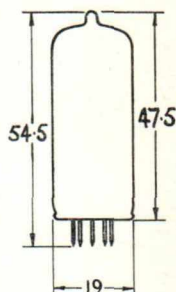
C_{in}	...	...	...	3.6 pF.
C_{out}	...	...	...	7.5 pF.
C_{a-g_1}	...	...	...	<0.01 pF.

DF91

IT4



Base
Connections
Underside View
of Base



All dimensions shown are in millimetres (max.).





DF91

IT4

