

FERRANTI

R.F. PENTODE

A directly heated R.F. Pentode, designed for use in Battery Operated Receivers. The filament is suitable only for d.c. operation.

PHYSICAL DETAILS.

Base	...	...	...	B7G—All Glass.
Max. Overall Length	...	...	...	54.5 mm. (2 $\frac{1}{2}$ in.).
Max. Seated Height	...	...	...	47.5 mm. (1 $\frac{3}{4}$ 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. Anode Supply Voltage	...	110 volts
Max. Anode Voltage	...	90 volts.
Max. Screen Supply Voltage	...	90 volts.
Max. Screen Voltage	...	70 volts.
Max. Cathode Current	...	6.0 mA.
Max. R_{g1-f}	...	3.0 M Ω
Max. V_{g1} ($I_{g1} = +0.3 \mu A$)	...	0 volts.

TYPICAL OPERATION.

Anode Voltage	...	90	90	volts.
Screen Voltage	...	45	67.5	volts.
Grid Bias Voltage	...	0	0	volts.
Anode Current	...	1.9	3.7	mA.
Screen Current	...	0.7	1.4	mA.
Mutual Conductance	...	850	1000	$\mu A/V$.
Anode Impedance	...	900	500	k Ω
Inner μ (μ_{g1-g2})	...	11	11	

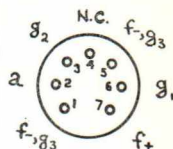
CAPACITANCES*

C_{in}	...	...	3.6 pF.
C_{out}	...	...	7.5 pF.
C_{a-g1}	...	...	<0.01 pF.

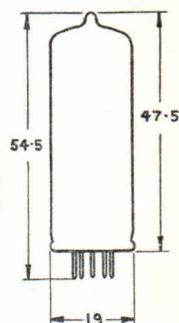
*Measured without external shield.

DF92

IL4



Base
Connections
Underside View
of Base



All dimensions
shown are in
millimetres
(max.).



DF92

IL4

