

UF80

FERRANTI

R.F. PENTODE

An indirectly heated R.F. Pentode for use with series heater connection on a.c. or d.c. mains. Primarily designed for use as an R.F. Amplifier or Mixer in F.M. Receivers.

PHYSICAL DETAILS.

Base	...	...	B9A—Noval.
Max. Overall Length	...	...	67.5 mm. ($2\frac{3}{4}$ in.).
Max. Seated Height	...	...	60.5 mm. ($2\frac{3}{8}$ in.).
Max. Diameter	...	...	22.2 mm. ($\frac{7}{8}$ in.).
Mounting Position	...	...	Any.

BASE CONNECTIONS.

Pin 1—Cathode.	Pin 5—Heater.
Pin 2—Control Grid (g_1)	Pin 6—Shield.
Pin 3—Cathode.	Pin 7—Anode.
Pin 4—Heater.	Pin 8—Screen Grid (g_2).
Pin 9—Suppressor Grid (g_3).	

HEATER.

Heater Current	...	...	0.1 amp.
Heater Voltage	...	...	19 volts.

RATINGS.

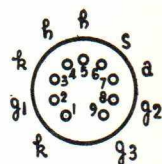
Max. H.T. Supply Voltage	...	...	550 volts.
Max. Anode Voltage	...	...	250 volts.
Max. Screen Voltage	...	...	250 volts.
Max. Anode Dissipation	...	...	2.5 watts.
Max. Screen Dissipation	...	...	0.7 watts.
Max. Cathode Current	...	...	15 mA.
Max. V_h-k	...	...	150 volts.
Max. R_{g1-k} (auto bias)	...	...	1.0 M Ω
Max. R_{g1-k} (fixed bias)	...	...	0.5 M Ω
Max. R_h-k	...	...	20 k Ω
*Min. Negative Grid Voltage	...	...	1.3 volts.

CHARACTERISTICS.

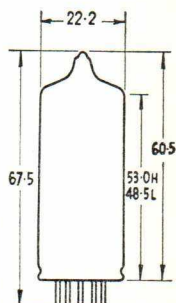
Anode Voltage	...	...	170 volts.
Screen Voltage	...	...	170 volts.
Suppressor Grid Voltage	...	...	0 volts.
Grid Voltage	...	...	-2 volts.
Anode Current	...	...	10 mA.
Screen Current	...	...	2.5 mA.
Mutual Conductance	...	...	7.4 mA/V.
Anode Impedance	...	...	400 k Ω
Inner μ	...	...	50
Input Damping (at 50 Mc/s.)	...	...	10 k Ω
Equivalent Noise Resistance	...	...	1.0 k Ω

CAPACITANCES.

$C_{in(g_1)}$	...	...	7.5 pF.
$C_{in(g_1)}$	...	...	5.4 pF.
C_{out}	...	...	3.3 pF.
C_{a-g_1}	...	...	<0.007 pF.
C_{a-k}	...	...	<0.01 pF.
C_{g2-g_1}	...	...	2.6 pF.
C_{g1-h}	...	...	<0.15 pF.



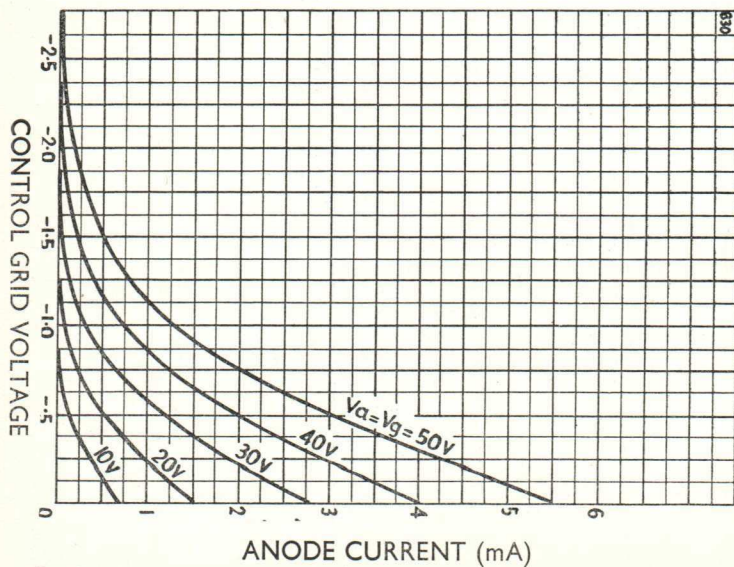
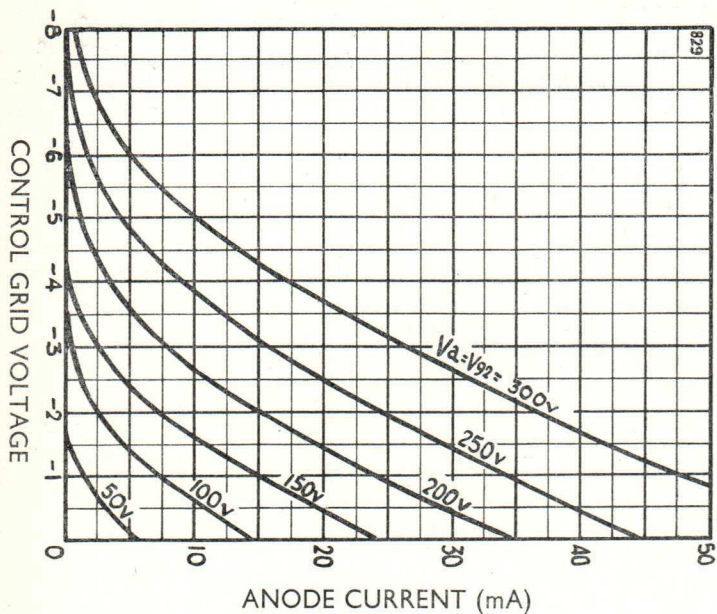
Base
Connections
Underside View
of Base

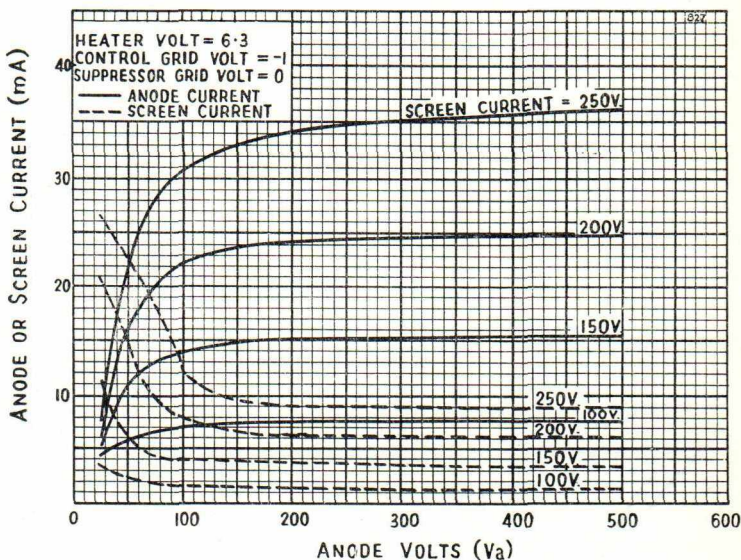
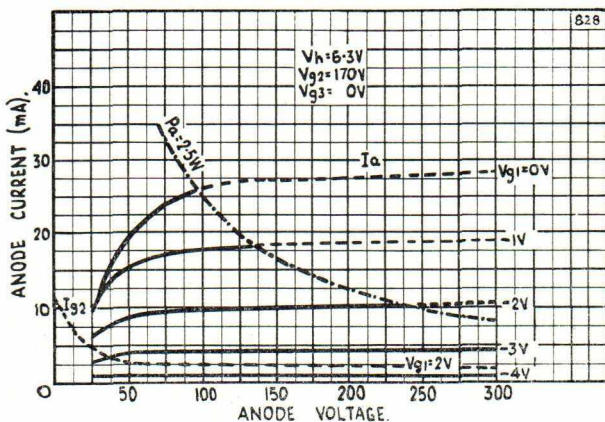


All dimensions shown are in millimetres (max.).



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