

FERRANTI

OUTPUT PENTODE

Type 6F6G is an indirectly heated pentode designed for use in the output stage of AC radio receivers and audio amplifiers.

PHYSICAL DETAILS.

Base	...	...	International Octal.
Max. Overall Length	...	...	119 mm. ($4\frac{1}{2}$ in.).
Max. Seated Height	...	...	104 mm. ($4\frac{1}{8}$ in.).
Max. Diameter (Bulb)	...	...	45 mm. ($1\frac{7}{8}$ in.).
Mounting Position	...	...	Any.

BASE CONNECTIONS.

Pin 1—No Connection.	Pin 5—Control Grid (g_1).
Pin 2—Heater.	Pin 6—No Pin.
Pin 3—Anode.	Pin 7—Heater.
Pin 4—Screen Grid (g_2).	Pin 8—Cathode,
	Suppressor Grid (g_3).

HEATER.

Heater Voltage	...	...	6.3 volts.
Heater Current	...	...	0.7 amp.

RATINGS.

Max. Anode Voltage	...	...	375 volts.
Max. Screen Voltage	...	...	285 volts.
Max. Anode Dissipation	...	...	11 watts.
Max. Screen Dissipation	...	...	3.75 watts.
Max. Heater-Cathode Voltage	...	...	100 volts DC.

TYPICAL OPERATION.

Single Valve Class A₁ Amplifier.

Anode Voltage	...	250	285	volts.
Screen Voltage	...	250	285	volts.
Control Grid Voltage	...	-16.5	-20	volts.
Anode Current (Zero Signal)	...	34	38	mA.
Anode Current (Max. Signal)	...	36	40	mA.
Screen Current (Zero Signal)	...	6.5	7	mA.
Screen Current (Max. Signal)	...	10.5	12	mA.
Anode Impedance (Approx.)	...	80000	78000	ohms.
Mutual Conductance	...	2.5	2.55	mA/V.
Cathode Bias Resistor	...	410	440	ohms.
Anode Load	...	7000	7000	ohms.
Power Output	...	3.2	4.8	watts.
Total Harmonic Distortion	...	8	9	%

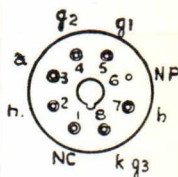
2 Valves Push Pull Class AB₁ Amplifier.

	Fixed Bias	Auto Bias	
Anode Voltage	...	315	volts.
Screen Voltage	...	285	volts.
Control Grid Voltage	...	-24	volts.
Auto Bias Resistor	...	320	ohms.
Peak Input Voltage	...	...	...
(Grid to Grid)	...	48	volts.
Anode Current (Zero Signal)	...	62	mA.
Anode Current (Max. Signal)	...	80	mA.
Screen Current (Zero Signal)	...	12	mA.
Screen Current (Max. Signal)	...	19.5	mA.
Optimum Load Resistance	...	...	...
Anode to Anode	...	10000	ohms.
Power Output	...	11	watts.
Total Harmonic Distortion	...	4	%

CAPACITANCES.

C _{in}	...	...	8.0 pF.
C _{out}	...	...	6.5 pF.
C _{a-g}	...	...	0.5 pF.

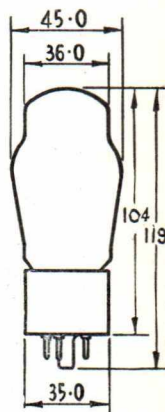
6F6G



Base

Connections

Underside View
of Base



All Dimensions
shown are in
millimetres
(max.).





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