

FERRANTI BEAM TETRODES

Types 50L6G and 50L6GT are indirectly heated beam tetrodes for use in the output stages of equipments designed for AC/DC operation. These valves are capable of giving relatively high power outputs at the low voltages available in such equipments.

PHYSICAL DETAILS.

50L6G.

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. ($1\frac{3}{4}$ in.).
Mounting Position	...	...	Any.

50L6GT.

Base	...	...	International Octal.
Max. Overall Length	...	...	84 mm. ($3\frac{1}{4}$ in.).
Max. Seated Height	...	...	70 mm. ($2\frac{3}{4}$ in.).
Max. Diameter (Base)	...	...	33 mm. ($1\frac{1}{4}$ 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.

HEATER.

Heater Current	...	...	0.15 amp.
Heater	...	...	50.0 volts.

RATINGS.

Max. Anode Voltage	...	...	200 volts.
Max. Screen Voltage	...	...	110 volts.
Max. Anode Dissipation	...	...	10 watts.
Max. Screen Dissipation	...	...	1.25 watts.
Max. Heater-Cathode Voltage	...	...	100 volts DC.

TYPICAL OPERATION.

Single Valve Class A₁ Amplifier.

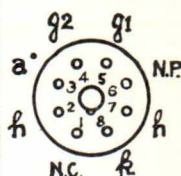
Anode Voltage	...	110	200	volts.
Screen Voltage	...	110	110	volts.
Control Grid Voltage	...	-7.5	-8	volts.
Anode Current (Zero Signal)	...	49	50	mA.
Anode Current (Max. Signal)	...	50	55	mA.
Screen Current (Zero Signal)	...	4	2	mA.
Screen Current (Max. Signal)	...	11	7	mA.
Anode Impedance (Approx.)	...	13000	30000	ohms.
Mutual Conductance	...	9.0	9.5	mA/V.
Cathode Bias Resistor	...	150	160	ohms.
Anode Load	...	2000	3000	ohms.
Power Output	...	2.1	4.3	watts.
Total Harmonic Distortion	...	10	10	%

CAPACITANCES.

C _{in}	...	...	...	12.5	12.0	pF.
C _{out}	...	...	...	8.0	9.5	pF.
C _{a-g}	...	...	...	1.0	1.0	pF.

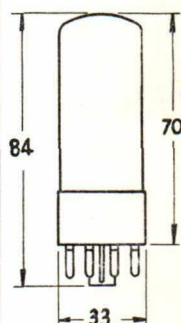
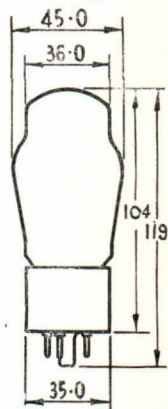
50L6G

50L6GT



Base Connections

Underside View of Base



All dimensions shown are in millimetres (max.).





50L6G

50L6GT

