

FERRANTI**HIGH IMPEDANCE DOUBLE TRIODE**

An indirectly heated double triode valve designed for use as an amplifier or phase inverter. Except for the common heater each triode unit is independent of the other.

PHYSICAL DETAILS.

Base	...	...	...	International Octal.
Bulb	...	...	...	Clear.
Max. Overall Length	...	...	...	84 mm. ($3\frac{1}{8}$ in.).
Max. Seated Height	...	...	...	70 mm. ($2\frac{7}{8}$ in.).
Max. Diameter (Base)	...	...	...	33 mm. ($1\frac{1}{8}$ in.).
Mounting Position	...	...	...	Any.

BASE CONNECTIONS.

Pin 1—Grid Triode 2.	Pin 5—Anode Triode 1.
Pin 2—Anode Triode 2.	Pin 6—Cathode Triode 1.
Pin 3—Cathode Triode 2.	Pin 7—Heater.
Pin 4—Grid Triode 1.	Pin 8—Heater.

HEATER.

Heater Voltage	...	...	...	6.3 volts.
Heater Current	...	...	...	0.3 amp.

RATINGS*

Max. Anode Voltage	...	...	...	250 volts.
Max. Anode Dissipation	...	...	...	1 watt.
Min. Grid Voltage	...	...	...	0 volt.
Max. V_{h-k}	...	...	...	100 volts.

TYPICAL OPERATION***Class A1 Amplifier.**

Anode Voltage	...	...	...	250 volts.
Grid Voltage	...	...	...	-2 volts.
Anode Current	...	...	...	2.3 mA.
Amplification Factor	...	...	...	70
Anode Impedance	...	...	...	44000 ohms.
Mutual Conductance	...	...	...	1.6 mA/V.

Resistance Coupled Amplifier.

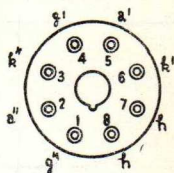
Anode Supply Voltage	...	...	100	250	volts.
Anode Load Resistor	...	...	0.25	0.25	MΩ
Auto Bias Resistor	...	...	4700	3300	ohms.
Peak Output	...	...	21	62	volts.
Stage Gain	...	...	23	50	

CAPACITANCES†

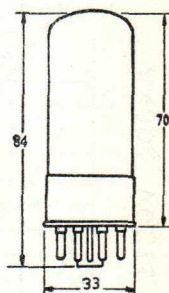
	Triode 1	Triode 2
C_{in}	2.15	2.15 pF.
C_{out}	0.9	0.9 pF.
C_{a-g}	3.4	3.5 pF.
$C_{a'-a''}$		1.4 pF.
$C_{g-a''}$		0.25 pF.
$C_{g'-a''}$		0.45 pF.
$C_{g'-a'}$		0.35 pF.

*Each Section.

†Without external shield.

6SL7GT

Base Connections
Underside View of Base



All dimensions shown are in millimetres (max.).



6SL7GT

