

FERRANTI

LOW IMPEDANCE DOUBLE TRIODE

Type 6SN7GT is an indirectly heated double triode in which the electrical characteristics of each triode unit are identical to those of type 6J5GT. It is suitable for use as a phase inverter, oscillator or resistance coupled amplifier, and as the two triode units are independent of each other, except for a common heater, they may be connected in cascade.

PHYSICAL DETAILS.

Base	...	...	International Octal.
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 CONNECTION.

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	...	...	0.6 amp.

RATINGS.

Max. Anode Voltage	...	...	300 volts.
Max. Anode Dissipation (each anode)	...	...	2.5 watts.
Max. Cathode Current	...	...	20 mA.
Max. Heater-Cathode Voltage	...	...	100 volts.

TYPICAL OPERATION.

Class A₁ Amplifier*

Anode Voltage	...	100	250	volts.
Anode Current	...	10.5	9.0	mA.
Grid Voltage	...	0	-8	volts.
Auto Bias Resistor	...	—	1100	ohms.
Mutual Conductance	...	2.5	2.6	mA/V.
Anode Impedance	...	8000	7700	ohms.
Amplification Factor	...	20	20	

Resistance Coupled Amplifier*

Anode Supply Voltage	100	200	300	volts.
Anode Load Resistor	50	100	250	k Ω
Auto Bias Resistor	2500	3300	6000	ohms.
Peak Output Voltage	17	38	57	volts.
Voltage Gain	13	14	14	volts.

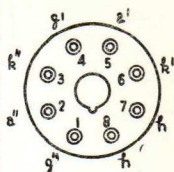
CAPACITANCES†

	Triode 1.	Triode 2.
C _{in}	2.6	2.6 pF.
C _{out}	0.8	0.8 pF.
C _{a-g}	4.0	4.1 pF.
C _{a'-a''}	...	0.5 pF.
C _{g'-g''}	...	0.1 pF.
C _{g'-a'} = C _{g''-a'}	0.2	0.2 pF.

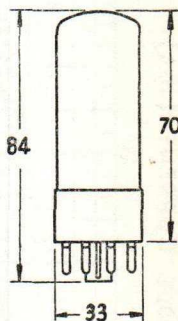
*Each section.

†Without external shield.

6SN7GT



Base
Connections
Underside View
of Base



Dimensions
shown are in
millimetres
(max.).



6SN7GT

