

FERRANTI

VARIABLE-MU R.F. PENTODES

Types 6K7G and 6K7GT are indirectly heated variable-mu pentodes designed for use in the I.F. or R.F. stages of AC Radio Receivers. Their internal shields will provide sufficient shielding except in the case of very high gain circuits.

PHYSICAL DETAILS.

6K7G.			
Base	...	...	International Octal.
Top Cap	...	...	Skirted Miniature.
Max. Overall Length	...	...	114 mm. ($4\frac{1}{2}$ in.).
Max. Seated Height	...	...	100 mm. ($3\frac{1}{2}$ in.).
Max. Diameter (Bulb)	...	...	40 mm. ($1\frac{1}{8}$ in.).
Mounting Position	...	...	Any.
6K7GT.			
Base	...	...	International Octal (Small Wafer-metal Sleeve).
Top Cap	...	...	Skirted Miniature.
Max. Overall Length	...	...	84 mm. ($3\frac{1}{8}$ in.).
Max. Seated Height	...	...	70 mm. ($2\frac{3}{4}$ in.).
Max. Diameter (Base)	...	...	34 mm. ($1\frac{1}{8}$ in.).
Mounting Position	...	...	Any.

BASE CONNECTIONS.

Pin 1—No connection—6K7G.	Pin 5—Suppressor Grid.
Base Sleeve—6K7GT.	Pin 6—No Pin.
Pin 2—Heater.	Pin 7—Heater.
Pin 3—Anode.	Pin 8—Cathode.
Pin 4—Screen Grid.	Top Cap—Control Grid.

HEATER.

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

RATINGS.

Max. Anode Voltage	...	...	300 volts.
Max. Screen Voltage	...	...	125 volts.
Min. Grid Voltage	...	...	0 volts.
Max. Anode Dissipation	...	...	2.75 watts.
Max. Screen Dissipation	...	...	0.35 watt.
Max. Heater-Cathode Voltage	...	...	100 volts DC.

TYPICAL OPERATION.

Anode Voltage	...	100	250	250 volts.
Screen Voltage	...	100	100	125 volts.
Grid Voltage	...	-1	-3	-3 volts.
Suppressor	...	Connected to Cathode.		
Auto. Bias Resistor	...	-	330	220 ohms.
Anode Current	...	9.5	7.0	10.5 mA.
Screen Current	...	2.7	1.7	2.6 mA.
Mutual Conductance	...	1.65	1.45	1.65 mA/V.
Anode Impedance	...	0.15	0.8	0.6 MΩ
Grid Volts for Cut off	...	-38	-42	-52 volts.

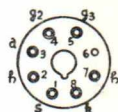
CAPACITANCES.

		6K7G.	6K7GT.	
C _{in}	...	...	5.0	4.6 pF.
C _{out}	...	...	12.0	12.0 pF.
C _{a-g}	...	...	0.007	0.005 pF.

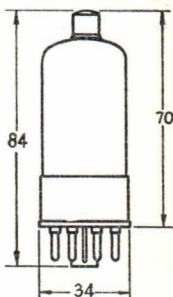
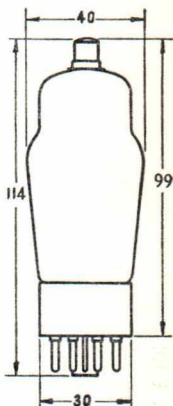
6K7G

6K7GT

T.C. g1



**Base
Connections
Underside View
of Base**



All dimensions
shown are in
Millimetres
(Max.).





6K7G

6K7GT

ANODE CURRENT (mA)

