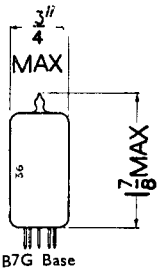
Current Equipment Type

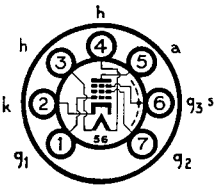


B7G Base

TYPE 6AM6

(Previously Coded 8D3)

MINIATURE HIGH SLOPE R.F. PENTODE



The BRIMAR type 6AM6 is an indirectly heated high slope pentode of the "all glass" construction, fitted with a miniature type base. It is particularly suitable for use in wide band amplifiers and television receivers, where it may be employed in the R.F., I.F. or V.F. stages. In conjunction with a suitable oscillator the 6AM6 will function satisfactorily as a frequency changer at frequencies up to 100 Mc/s.

RATINGS

Heater Voltage	6.3 volts
Heater Current	0.3 amp.
Anode Voltage	275 volts max.
Anode Dissipation	2.5 watts max.
Screen (g_2) Voltage	275 volts max.
Screen Dissipation	0.8 watts max.
Heater to Cathode potential	150 volts max.

OPERATING CHARACTERISTICS

[Suppressor Grid (g_3) connected to Cathode]

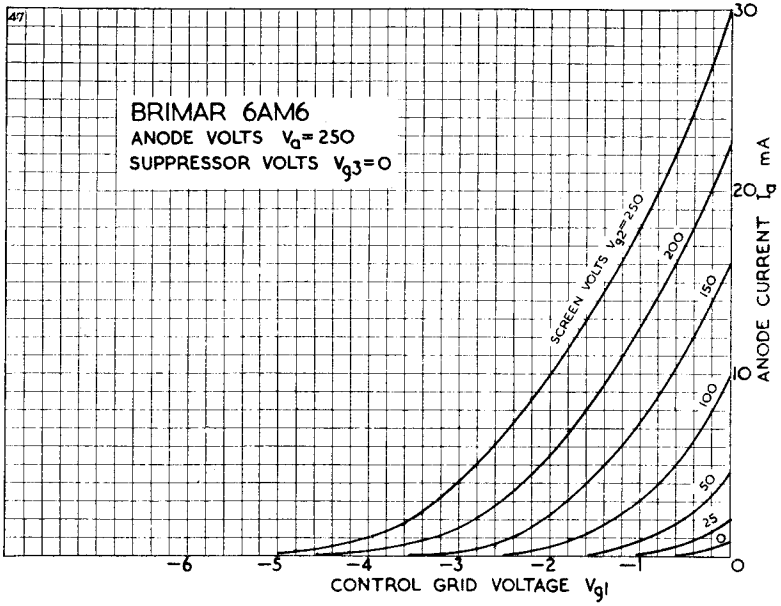
Anode Voltage	200	250	volts
Anode Current	9.0	10.0	mA
Screen Voltage	200	250	volts
Screen Current	2.25	2.6	mA
Control Grid (g_1) Voltage	−1.5	−2.0	volts
Cathode Bias Resistor	135	160	ohms
Anode Impedance (Approx.)	0.8	1.0	meg.
Mutual Conductance	7.5	7.5	mA/V
Input Resistance at 45 Mc/s.	7,000	8,200	ohms
Control Grid Voltage (For Cathode Current cut-off)	−4.5	−5.5	volts
Working Input Capacity	10.4	10.1	pF
Change in Input Capacity (g_1 biased to cut-off)	2.3	2.0	pF
Inner Amplification Factor ($\mu_{g1, g2}$)	70	70	

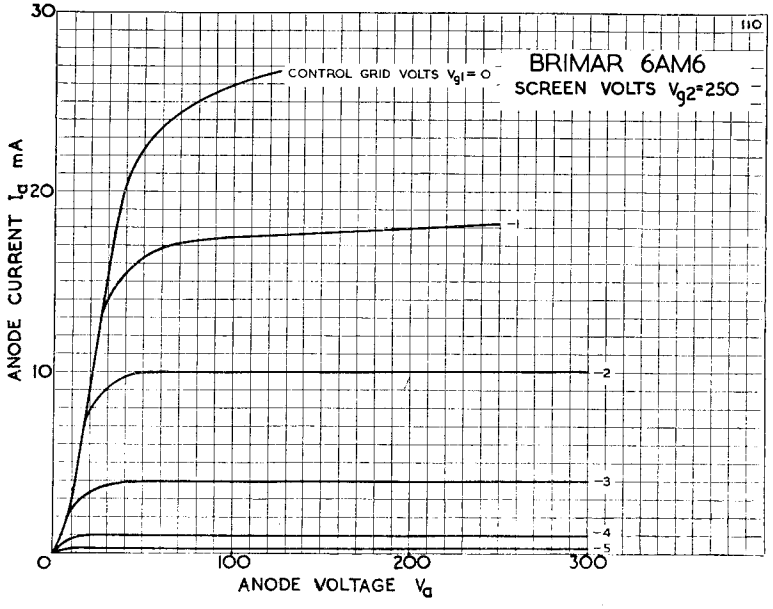
INTER-ELECTRODE CAPACITANCES *

Input	7.5 pF
Output	3.2 pF
Control Grid to Anode	0.01 pF

** With close fitting shield connected to Cathode.*

Type 6AM6 is a commercial equivalent of the CV138


BRIMAR 6AM6
ANODE VOLTS V_a = 250
SUPPRESSOR VOLTS V_{g3} = 0
SCREEN VOLTS V_{g2}=250
200
150
100
50
25
0
30
20
10
0
ANODE CURRENT I_a mA
−6
−5
−4
−3
−2
−1
0
CONTROL GRID VOLTAGE V_{g1}


BRIMAR 6AM6
SCREEN VOLTS V_{g2}=250
CONTROL GRID VOLTS V_{g1} = 0
-1
-2
-3
-4
-5
30
20
10
0
ANODE CURRENT I_a mA
100
200
300
ANODE VOLTAGE V_a