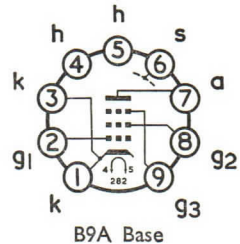


VARIABLE-MU R.F. PENTODE



GENERAL

This valve is a variable-mu R.F. pentode primarily intended for use in A.C. or A.C./D.C. television receivers.

Heater Voltage	V_h	6.3 V
Heater Current	I_h	0.3 A

RATINGS

Maximum Anode Dissipation	$P_a(\text{max})$	2.5	W
Maximum Screen Grid Dissipation	$P_{g2}(\text{max})$	0.65	W
Maximum Anode Voltage	$V_a(\text{max})$	300	V
Maximum Screen Grid Voltage	$V_{g2}(\text{max})$	300	V
Maximum Cathode Current	$I_k(\text{max})$	15	mA
Maximum Heater to Cathode Voltage (DC)	$V_{h-k}(\text{max})$	150*	V
Maximum Grid 1 to Cathode Resistance	$R_{g1-k}(\text{max})$	3	MΩ
Maximum Heater to Cathode Resistance	$R_{h-k}(\text{max})$	20	kΩ

* From cathode to higher potential heater pin.

INTER-ELECTRODE CAPACITANCES †

Grid to Earth	C_{in}	7.2	pF
Anode to Earth	C_{out}	3.7	pF
Grid 1 to Anode	C_{g1-a}	< 0.007	pF
Grid 1 to Heater	C_{g1-h}	< 0.15	pF

† Inter-electrode capacitance in fully shielded socket without can.

"Earth" denotes the remaining earthy potential electrodes, heater and shields joined to cathode.

TYPICAL OPERATION

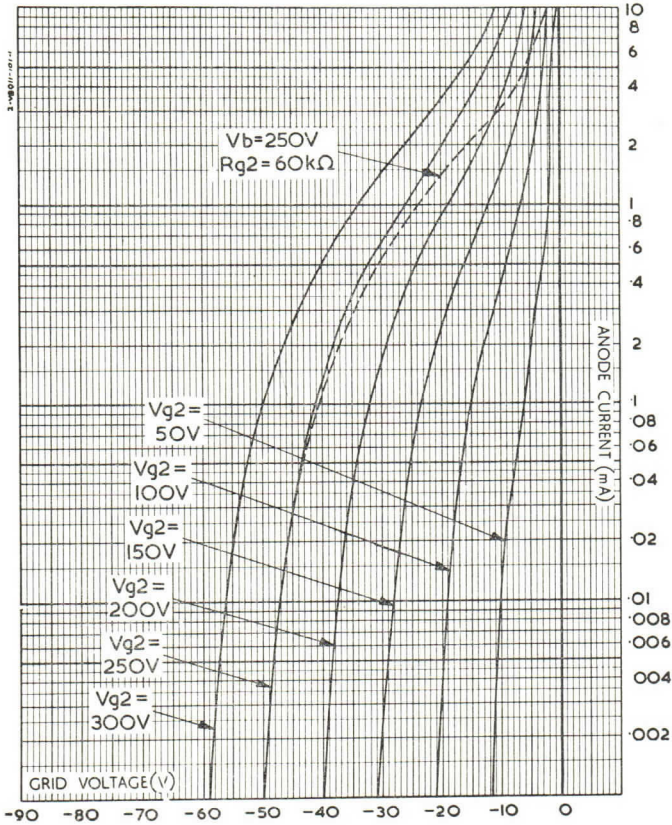
Anode Voltage	V_a	250	250	V
Screen Grid Voltage	V_{g2}	100	250	V
Control Grid Voltage	V_{g1}	-2		V
Anode Current	I_a	10		mA
Screen Grid Current	I_{g2}	2.5		mA
Mutual Conductance	g_m	6		mA/V
Inner Amplification Factor	μ_{g1-g2}	25		
Anode Resistance ($\delta v_a / \delta i_a$)	r_a	0.5		MΩ
Grid Bias to give Mutual Conductance of 60 $\mu A/V$	V_{g1}		-35	V
Equivalent Grid Noise Resistance	R_{eq}	1.5		kΩ

MOUNTING POSITION—Unrestricted.

APPROXIMATE WEIGHT

Net	0.5	oz
Packed	0.75	oz

CHARACTERISTIC CURVES : I_a/V_{g1}
 ($V_a=250V$, $V_{g3}=0V$, $V_h=6.3V$)



CHARACTERISTIC CURVES : g_m/V_{g1}
 ($V_a=250V$, $V_{g3}=0V$, $V_h=6.3V$)

