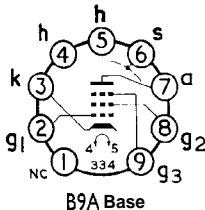


BRIMAR

LOW
MICROPHONY
A.F. PENTODE



GENERAL

This screened pentode is particularly suitable for use in the early stages of high gain A.F. amplifiers where low A.F. noise, microphony and hum are required.

Heater Voltage	V_h 6.3	V
Heater Current	I_h 0.15	A

RATINGS

Maximum Anode Dissipation	$P_{a(max)}$	0.75	W
Maximum Screen Grid Dissipation	$P_{g2(max)}$	0.3	W
Maximum Anode Voltage	$V_{a(max)}$	300	v
Maximum Screen Grid Voltage	$V_{g2(max)}$	125	v
Maximum Heater to Cathode Voltage (D.C.)	$V_{h-k(max)}$	100	v

INTER-ELECTRODE CAPACITANCES

input	C_{in}	4.0	pF
output	C_{out}	4.0	pF
Control Grid to Anode	C_{g1-a}	<0.01	pF

OPERATING CHARACTERISTICS (g_3 connected to Cathode)

Anode Voltage	V_a	100	250	v
Screen Grid Voltage	V_{g2}	100	100	v
Control Grid Voltage	V_{g1}	-3.0	-3.0	v
Anode Current	I_a	2.0	2.1	mA
Screen Grid Current	I_{g2}	0.7	0.6	mA
Mutual Conductance	g_m	1.1	1.25	mA/V
Valve Anode Resistance ($\delta V_a / \delta I_a$)	r_a	1.5	2.3	M Ω

TYPICAL OPERATION-As a resistance coupled amplifier

Anode Supply Voltage	$V_{a(b)}$	100	200	300	v
Screen Grid Supply Voltage	$V_{g2(b)}$	100	200	300	v
Anode Load Resistance	R_L	250	250	250	k Ω
Screen Grid Series Resistance	R_{g2}	1.0	1.0	1.2	M Ω
Cathode Bias Resistance	R_k	2.5	1.5	1.2	k Ω
Peak Output Voltage	$V_{out(pk)}$	35	70	100	v
Voltage gain		90	120	140	

6BR7 Equivalents
8D5
CV2135

