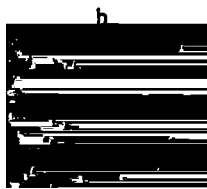


## CURRENT EQUIPMENT TYPE



LOW  
MICROPHONY  
A.F. PENTODE



B9A Base

## 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 $\Omega$

## 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 $\Omega$
Screen Grid Series Resistance	$R_{g3}$	1.0	1.0	1.2	M $\Omega$
Cathode Bias Resistance	$R_k$	2.5	1.5	1.2	k $\Omega$
Peak Output Voltage	$V_{out(pk)}$	35	70	100	v
Voltage gain		90	120	140	

6BR7 Equivalents  
8D5  
CV2135