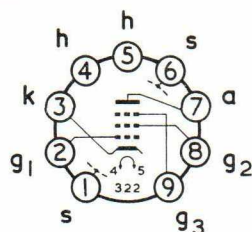


VARIABLE-MU H.F. PENTODE



B9A Base

GENERAL

This variable-mu H.F. pentode is designed primarily for use as an H.F. or I.F. amplifier.

Heater Current	I_h	0.1	A
Heater Voltage	V_h	12.6	V

RATINGS

Maximum Anode Dissipation	$P_a(\max)$	2.25	W
Maximum Screen Grid Dissipation	$P_{g2}(\max)$	0.45	W
Maximum Anode Supply Voltage	$V_{a(b)\max}$	550	V
Maximum Anode Voltage	$V_a(\max)$	250	V
Maximum Screen Grid Supply Voltage	$V_{g2(b)\max}$	550	V
Maximum Screen Grid Voltage	$V_{g2(\max)}$	250	V
Maximum Heater to Cathode Voltage	$V_{h-k(\max)}$	150	V
Maximum Cathode Current	$I_k(\max)$	16.5	mA
Maximum Grid to Cathode Resistance	$R_{g1-k(\max)}$	3.0	M Ω
Maximum Heater to Cathode Resistance	$R_{h-k(\max)}$	20	k Ω

INTER-ELECTRODE CAPACITANCES

Input	C_{in}	5.5	pF
Output	C_{out}	5.1	pF
Anode to Grid 1	C_{a-g1}	<0.002	pF
Grid 1 to Heater	C_{g1-h}	0.05	pF

CHARACTERISTICS

Anode Voltage	V_a	170	V
Screen Grid Voltage	V_{g2}	110	V
Control Grid Voltage	V_{g1}	-2.0	V
Anode Current	I_a	12	mA
Screen Grid Current	I_{g2}	3.9	mA
Mutual Conductance	g_m	3.8	mA/V
Inner Amplification Factor	μ_{g1-g2}	21	
Valve Anode Resistance ($\partial V_a / \partial I_a$)	r_a	0.5	M Ω
Control Grid Voltage for $g_m/10$	$V_{g1(gm/10)}$	-10	V