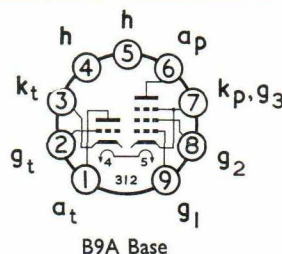


A.F. TRIODE PENTODE



GENERAL

This valve is a triode and output pentode designed primarily for use in A.F. applications.

Heater Current	I_h	0.1	A
Heater Voltage	V_h	38	V

RATINGS

	Triode	Pentode	
Maximum Anode Dissipation	$P_a(\max)$	3.5	W
Maximum Screen Grid Dissipation	$P_{g2}(\max)$	—	1.2 W
Speech and Music	—	2.4	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	$V_{h-k}(\max)$	—	—
Heater Positive	100	100	V
Maximum Cathode Current	$I_{k(\max)}$	15	45 mA
Maximum Control Grid to Cathode Resistance	$R_{g1-k}(\max)$	—	500 k Ω
Self Bias	—	1.0	0.25 M Ω
Fixed Bias	—	22	— M Ω
Grid Current Bias	—	—	—

INTER-ELECTRODE CAPACITANCES

	Triode	Pentode	
Input	C_{in}	2.3	5.7 pF
Output	C_{out}	0.32	4.7 pF
Anode to Control Grid	C_{a-g1}	1.6	<0.2 pF
Control Grid to Heater	C_{g1-h}	—	0.4 pF

OPERATING CHARACTERISTICS

	Triode	Pentode	
Anode Voltage	V_a	170	170 V
Screen Grid Voltage	V_{g2}	—	170 V
Control Grid Voltage	V_{g1}	—1.5	—9.5 V
Anode Current	I_a	1.6	30 mA
Screen Grid Current	I_{g2}	—	5.0 mA
Mutual Conductance	g_m	2.1	5.5 mA/V
Valve Anode Resistance ($\delta V_a / \delta I_a$)	r_a	40	53 k Ω
Amplification Factor	μ	82	—
Inner Amplification Factor	μ_{g1-g2}	—	10