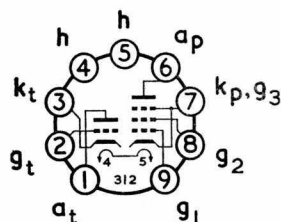


TIME BASE TRIODE PENTODE



B9A Base

GENERAL

This triode pentode is for use in television receivers with the triode as a frame blocking oscillator and the pentode as a frame output valve.

Heater Current	I_h	0.3	A
Heater Voltage	V_h	12.6	V

RATINGS

		Triode	Pentode	
Maximum Anode Dissipation	$P_a(\max)$	3.5	5.4	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	550	V
Maximum Anode Voltage	$V_a(\max)$	250	250	V
Maximum Peak Positive Anode Voltage	$V_a(pk)\max$	—	2.0	kV
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	$V_{h-k}(\max)$	100	100	V
Heater Positive		15	45	mA
Maximum Cathode Current	$I_k(\max)$	—	500	kΩ
Maximum Control Grid to Cathode Resistance	$R_{g1-k}(\max)$	1.0	0.25	MΩ
Self Bias		22	—	MΩ
Fixed Bias				
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	250	170	V
Screen Grid Voltage	V_{g2}	—	170	V
Control Grid Voltage	V_{g1}	—8.5	—9.5	V
Anode Current	I_a	10.5	30	mA
Screen Grid Current	I_{g2}	—	5.0	mA
Mutual Conductance	g_m	2.2	5.5	mA/V
Valve Anode Resistance ($\partial V_a / \partial I_a$)	r_a	7.7	53	kΩ
Amplification Factor	μ	17	—	
Inner Amplification Factor	μ_{g1-g2}	—	10	