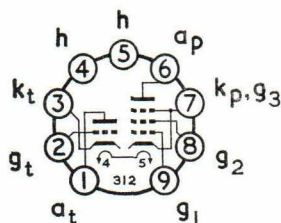


TIME BASE TRIODE PENTODE



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		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		—	0.25	M Ω
Fixed Bias		1.0	—	M Ω
Grid Current Bias		22	—	M Ω

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 ($\delta v_a/\delta i_a$)	r_a	7.7	53	k Ω
Amplification Factor	μ	17	—	
Inner Amplification Factor	μ_{g1-g2}	—	10	