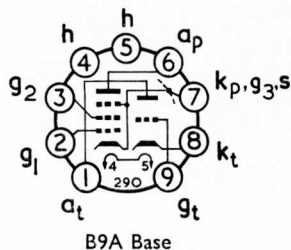


TRIODE PENTODE



GENERAL

This triode pentode is intended for use in wide band amplifiers and instrumentation applications where high gain is required.

Heater Voltage	V_h	6.3	V
Heater Current	I_h	0.45	A

RATINGS

		Triode	Pentode	
Maximum Anode Dissipation	$P_{a(max)}$	2.0	1.5	W
Maximum Screen Grid Dissipation	$P_{g_2(max)}$	—	0.5	W
Maximum Anode Voltage	$V_{a(max)}$	250	250	V
Maximum Screen Grid Supply Voltage	$V_{g_2(b)max}$	—	250	V
Maximum Screen Grid Voltage	$V_{g_2(max)}$	—	175	V
Maximum Heater to Cathode Voltage	$V_{h-k(max)}$	150	150	V
Maximum Cathode Current	$I_{k(max)}$	20	20	mA
Maximum Control Grid to Cathode Resistance	$R_{g_1-k(max)}$	0.5	0.5	MΩ
Fixed Bias				

INTER-ELECTRODE CAPACITANCES

		Triode	Pentode	
Input	C_{in}	2.5	7.0	pF
Output	C_{out}	1.5	3.1	pF
Control Grid to Anode	C_{g_1-a}	1.8	<0.02	pF
Heater to Cathode	C_{h-k}	3.0	3.7	pF

CHARACTERISTICS

		Triode	Pentode	
Anode Voltage	V_a	150	150	V
Screen Grid Voltage	V_{g_2}	—	150	V
Control Grid Voltage	V_{g_1}	-1.5	-2.0	V
Anode Current	I_a	13.5	7.0	mA
Screen Grid Current	I_{g_2}	—	2.2	mA
Mutual Conductance	g_m	7.2	11	mA/V
Valve Anode Resistance ($\delta v_a/\delta i_a$)	r_a	5.3	350	kΩ
Amplification Factor	μ	38	—	
Inner Amplification Factor	$\mu_{g_1-g_2}$	—	55	
Control Grid Voltage for $I_a = 100 \mu A$	$V_{g_1(I_a=100\mu A)}$	—	-3.5	V

