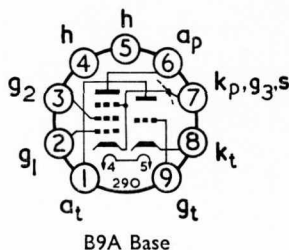


TRIODE PENTODE



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	$P_{g2}(\max)$ —	0.5	W
Maximum Anode Voltage	$V_a(\max)$ 250	250	V
Maximum Screen Grid Supply Voltage	$V_{g2(b)\max}$ —	250	V
Maximum Screen Grid Voltage	$V_{g2(\max)}$ —	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	$R_{g1-k(\max)}$ 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_{g1-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_{g2} —	150	V
Control Grid Voltage	V_{g1} -1.5	-2.0	V
Anode Current	I_a 13.5	7.0	mA
Screen Grid Current	I_{g2} —	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	μ_{g1-g2} —	55	
Control Grid Voltage for $I_a = 100 \mu A$	$V_{g1}(I_a = 100 \mu A)$ —	-3.5	V

