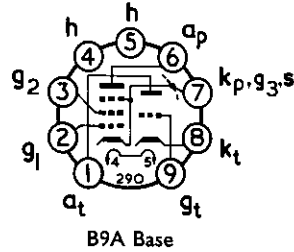
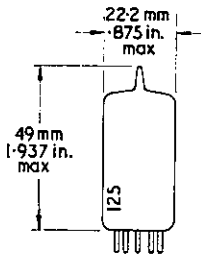


MAINTENANCE TYPE

# BRIMAR

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

### 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	$\mu$	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

ECF804 Equivalent  
CV5948