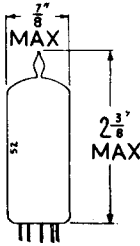
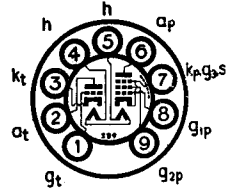


Current Equipment Type



TYPE PCL84 VIDEO TRIODE PENTODE



The BRIMAR PCL84 consists of a medium-high- μ triode and a high slope pentode in a miniature envelope on a noval base. The pentode section is intended for use as a video amplifier and will provide a larger current swing than high slope R.F. pentodes which have been used hitherto. The other section is a general purpose triode for use as a cathode follower, oscillator, etc.

RATINGS

	Pentode		Triode	
Heater Voltage	15	15	15	volts max.
Heater Current	0.3	0.3	0.3	amps.
Anode Voltage	250	250†	250	volts max.
Anode Voltage ($I_a = 0$)	550	550	550	volts max.
Anode Dissipation	4	1	1	watts max.
Screen Voltage	250			volts max.
Screen Voltage ($I_{ga} = 0$)	550			volts max.
Screen Dissipation	1.7			watts max.
Control Grid Circuit Resistance, Fixed Bias	1		1	megohm
Control Grid Circuit Resistance, Auto Bias	2		3	megohms
Cathode Current	40		12	mA
Heater-Cathode Voltage, Cathode Negative	200		150	volts max.
Heater-Cathode Voltage, Cathode Positive	200	250 d.c.	†150 a.c.	volts max.
Heater-Cathode Circuit Resistance	20		20	kilohms

†Peak Voltage 400 volts.

OPERATING CHARACTERISTICS

Pentode		Triode		
Anode Voltage	170	200	220	volts
Screen Voltage	170	200	220	volts
Grid Voltage	—2.1	—2.9	—3.4	volts
Anode Current	18	18	18	mA
Screen Current	3.1	3.1	3.1	mA
Mutual Conductance	11	10.4	10.0	mA/V
Anode Resistance	100	130	150	kilohms approx.
Inner- μ (μ_{g-g_2})	36	36	36	

Triode		
Anode Voltage	200	volts
Grid Voltage	—1.7	volts
Anode Current	3	mA
Mutual Conductance	4	mA/V
Amplification Factor	65	

INTER-ELECTRODE CAPACITANCES

Pentode Input	9	pF
Pentode Output	4.5	pF
Pentode Grid to Anode	0.1	pF max.
Triode Anode to Pentode Grid	0.01	pF max.
Triode Input	4	pF
Triode Output	2.5	pF
Triode Grid to Anode	2.7	pF
Triode Grid to Heater	0.1	min., 0.15 max.
Triode Grid to Pentode Grid	0.01	pF max.

