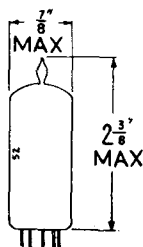
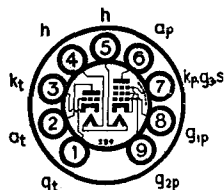


Current Equipment Type



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	volts max.
Heater Current	...	...	...	0.3	0.3	amps.
Anode Voltage	...	...	...	250	250†	volts max.
Anode Voltage ($I_a = 0$)	...	...	...	550	550	volts max.
Anode Dissipation	...	...	...	4	1	watts max.
Screen Voltage	...	...	...	250		volts max.
Screen Voltage ($I_{g2} = 0$)	...	...	...	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	...	...	250 d.c.	200	†150 a.c.	volts max.
Heater-Cathode Circuit Resistance	...	...	...	20	20	kilohms

†Peak Voltage 400 volts.

OPERATING CHARACTERISTICS

OPERATING CHARACTERISTICS									
Pentode									
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 ($\mu g-g_2$)	...	...	...	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.

