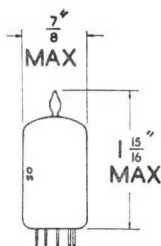
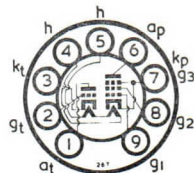


Current Equipment Type



TYPE UCL83 TRIODE PENTODE



The BRIMAR UCL83 is a triode and output pentode with separate cathodes designed primarily for use in A.F. applications.

Heater Current	...	...	...	...	...	...	0.1 amp.
Heater Voltage	...	...	...	...	...	...	38 volts

RATINGS

				<i>Pentode</i>	<i>Triode</i>
Anode Supply Voltage ($I_a = 0$)	...	...	...	550	550 volts max.
Anode Voltage	...	...	...	250	250 volts max.
Anode Dissipation	...	...	...	5.4	3.5 watts max.
Screen Supply Voltage ($I_{g_2} = 0$)	...	...	...	550	— volts max.
Screen Voltage	...	...	...	250	— volts max.
Screen Dissipation	...	...	...	1.2	— watts max.
Screen Dissipation (Speech and music)	...	...	...	2.4	— watts max.
Cathode Current	...	...	...	45	15 mA max.
Grid Resistor (Self bias)	...	...	...	500	— k ohm max.
Grid Resistor (Fixed bias)	...	...	...	0.25	1.0 M ohm max.
Grid Resistor (Grid current bias)	...	...	...	—	22 M ohm max.
Heater-Cathode Voltage (Cathode negative)	...	...	...	100	100 volts max.

OPERATING CHARACTERISTICS

				<i>Pentode</i>	<i>Triode</i>
Anode Voltage	...	...	...	170	170 volts
Screen Voltage	...	...	...	170	— volts
Anode Current	...	...	...	30	1.6 mA
Screen Current	...	...	...	5.0	— mA
Grid Voltage	...	...	...	—9.5	—1.5 volts
Mutual Conductance	...	...	...	5.5	2.1 mA/V
Anode Impedance	...	...	...	53	40 k ohm
Amplification Factor	...	...	...	—	82
Inner Amplification Factor ($\mu_{g_1-g_2}$)	...	...	...	10	—

INTER-ELECTRODE CAPACITANCES

Pentode Section				Triode Section			
C _{in}	...	...	5.7 pF	C _{in}	...	...	2.3 pF
C _{out}	...	...	4.7 pF	C _{out}	...	...	0.32 pF
C _{g₁-h}	...	...	0.4 pF	C _{a-g}	...	...	1.6 pF
C _{a-g₁} (max.)	...	...	0.2 pF				

