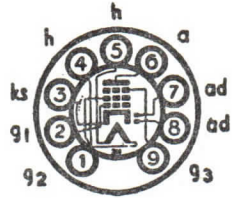


Current Equipment Type

TYPE UBF89
DOUBLE DIODE
VARI-MU R.F.
PENTODE



The BRIMAR UBF89 is a double diode vari-mu pentode. The pentode section is designed primarily for use as an R.F. or I.F. amplifier and the diodes for A.M. detection.

Heater Current	...	...	...	...	...	0.1 amp.
Heater Voltage	...	...	...	...	...	19 volts

RATINGS (Pentode)

Anode Supply Voltage ($I_a = 0$)	...	...	...	...	550 volts max.
Anode Voltage	...	...	...	...	250 volts max.
Anode Dissipation	...	...	...	...	2.25 watts max.
Screen Supply Voltage ($I_{g_2} = 0$)	...	...	...	...	550 volts max.
Screen Voltage	...	...	...	...	125 volts max.
Screen Dissipation	...	...	...	...	0.45 watts max.
Cathode Current	...	...	...	...	16.5 mA max.
Grid-Cathode Resistance	...	...	...	...	3.0 M ohm max.
Grid-Cathode Resistance (Grid current biasing)	...	...	...	...	22 M ohm max.
Heater-Cathode Resistance	...	...	...	...	20 k ohm max.
Heater-Cathode Voltage	...	...	...	...	100 volts max.

(Diodes)

Peak Inverse Voltage	...	...	...	...	200 volts max.
Anode Current D.C.	...	...	...	...	0.8 mA max.
Peak Anode Current	...	...	...	...	5.0 mA max.
Heater-Cathode Resistance	...	...	...	...	20 k ohm max.
Heater-Cathode Voltage	...	...	...	...	100 volts max.

OPERATING CHARACTERISTICS

Anode Voltage	...	...	...	...	200 volts
Anode Current	...	...	...	...	11 mA
Screen Voltage	...	...	...	...	100 volts
Screen Current	...	...	...	...	3.3 mA
Control Grid Voltage	...	...	...	...	-1.5 volts
Mutual Conductance	...	...	...	...	4.5 mA/V
Anode Impedance	...	...	...	...	600 k ohm
Inner Amplification Factor ($\mu_{g_1-g_2}$)	...	...	...	...	20
Control Grid Voltage (for gm/10)	...	...	...	...	-6.9 volts

INTER-ELECTRODE CAPACITANCES

Ca-g ₁ (max.)	...	...	...	...	0.0025 pF
Cin	...	...	...	...	5.0 pF
Cout	...	...	...	...	5.2 pF
Grid to Heater	...	...	...	...	0.05 pF
Diode Anode to Cathode	...	...	...	...	2.5 pF

