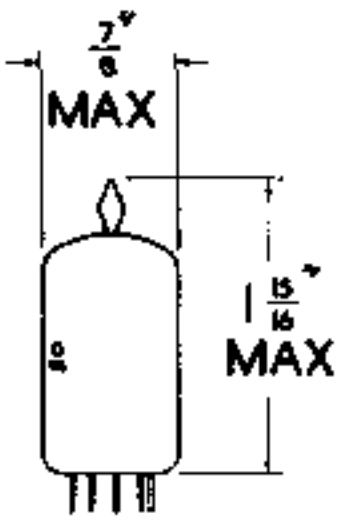
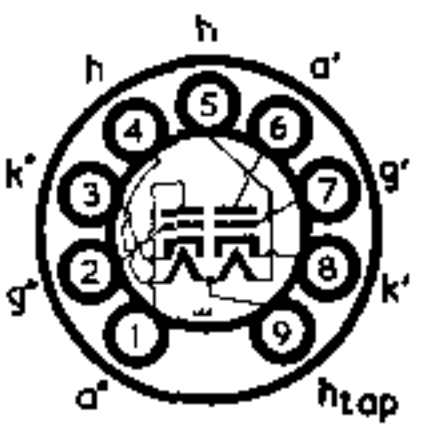
VALVES

BRIMAR



TYPE 7492
LONG LIFE
MINIATURE
DOUBLE TRIODE



The BRIMAR 7492 is a miniature double triode designed for use in high-speed switching and R.F. applications. Each triode section is designed to have characteristics which are adequate for the majority of switching applications but which do not necessitate extremely close inter-electrode spacings; this reduces the possibility of spurious pulses from intermittent short-circuits with a consequent improvement in overall circuit reliability. The heater-cathode construction is designed for dependable service under conditions of intermittent operation. When used in "on-off" control applications, the 7492 will maintain its emission capabilities after long periods of operation under "cut-off" conditions.

RATINGS

Heater Voltage	6.3	or 12.6	volts
Heater Current	0.3	or 0.15	amp.
Anode Voltage (Ia = 0)		550	volts max.
Anode Voltage		300	volts max.
Anode Dissipation (each section)		2.5	watts max.
D.C. Cathode Current (each section)		20	mA max.

OPERATING CHARACTERISTICS

Anode Voltage			250	volts
Cathode Bias Resistor (by-passed by 1,000 μF)			200	ohms
	Min.	Bogey	Max.	
Anode Current	7.0	10.0	14.0	mA
Mutual Conductance	4.5	5.5	6.5	mA/V
Amplification Factor	50	60	70	
Anode Current Difference (between sections)	—	—	3.2	mA

TYPICAL OPERATION (Each Section)

Anode Voltage	250	volts
Grid Voltage	−9	volts
Cathode Bias Resistor	1.2	kΩ
Anode Current	9.1 ± 1.0	mA
Grid Voltage for Ia = 100 μA (approximately)	−7.0	volts
Mutual Conductance	5.2	mA/V
Anode Current (end of life)	7.5	mA

INTER-ELECTRODE CAPACITANCES*

Grid to Anode (each section)	1.6	pF
Input (each section)	2.5	pF
Output (each section)	0.4	pF
Anode to Anode (max.)	0.33	pF
Heater to Cathode (both sections)	3.85	pF

* *Without external shield.*