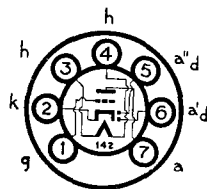


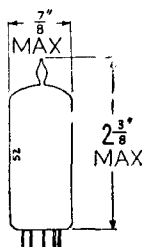
Current Equipment Type

TYPE 12AT6 MINIATURE DOUBLE DIODE TRIODE RATINGS



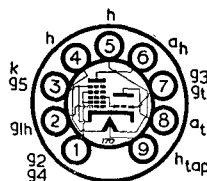
Heater Voltage ... 12.6 volts Heater Current ... 0.15 amp.

For further information and characteristic curves refer to type 6AT6.



Current Equipment Type

TYPE 12AH8 MINIATURE TRIODE-HEPTODE FREQUENCY CHANGER



B9A (Noval) Base

The Brimar 12AH8 is a triode-heptode frequency changer on the Noval (B9A) base, featuring high conversion conductance, conversion impedance and oscillator mutual conductance. The centre tapped heater permits operation from either 6.3 or 12.6 volts, enabling the same valve to be used in both A.C. and A.C./D.C. equipment.

RATINGS

Heater Voltage	...	6.3	or	12.6 volts
Heater Current	...	0.3	or	0.15 amp.
Heptode Anode Voltage	...	...	...	300 volts max.
Heptode Screen (g_2, g_4) Voltage	...	...	...	125 volts max.
Triode Anode Voltage	...	...	...	150 volts max.
Total Cathode Current	...	...	...	17.5 mA max.

OPERATING CHARACTERISTICS

Heptode Anode Voltage	...	100	250 volts
Heptode Anode Current	...	2.5	2.6 mA
Heptode Screen Voltage	...	100	100 volts
Heptode Screen Current	...	4.5	4.4 mA
Signal Grid (g_1) Voltage	...	-3	-3 volts
Cathode Bias Resistor	...	220	220 ohms
Heptode Anode Impedance	...	0.6	1.5 meg.
Triode Anode Supply Voltage	...	100	250 volts
Triode Anode Resistor	...	0	27,000 ohms
Triode Anode Voltage	...	100	100 volts
Triode Anode Current	...	5.7	5.7 mA
Triode Grid Current	...	0.2	0.2 mA
Triode Grid Resistor	...	47	47 kilohms
Conversion Conductance	...	0.52	0.55 mA/V.
Conversion Conductance for V_{g1} —22 volts	...	0.005	0.005 mA/V.
Equivalent Noise Resistance	...	100,000	100,000 ohms approx.
*Triode Mutual Conductance	...	3.5	3.5 mA/V.
*Triode Amplification Factor	...	17	17

* Taken at $V_{at} = 100$ v. $V_{gt} = 0$ v.

INTER-ELECTRODE CAPACITANCES

(with external close fitting shield)

R.F. Input (g_1 -all)	...	5.0	pF
I.F. Output (a_h -all)	...	8.0	pF
Triode Input	...	7.0	pF
Triode Output	...	2.5	pF
Heptode Grid to Heptode Anode (g_1 - a_h)	...	0.025	pF
Triode Grid to Triode Anode (g_1 - a_t)	...	1.2	pF

