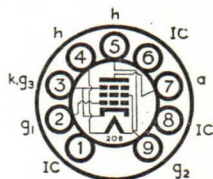

**B9A Base**
**Current Equipment Type**

## TYPE EL84 MINIATURE OUTPUT PENTODE



The BRIMAR type EL84 is a miniature indirectly heated high slope output pentode. The heater is intended for operation in parallel with other valves in A.C. operated or mobile equipment. The valve is primarily designed as an audio output stage in receivers or amplifiers, either singly or in push-pull.

Heater Voltage ...	...	...	...	...	6.3 volts
Heater Current ...	...	...	...	...	0.76 amp.

**RATINGS**

Anode Voltage ...	...	...	...	...	300 volts max.
Anode Dissipation ...	...	...	...	...	12 watts max.
Screen Voltage ...	...	...	...	...	300 volts max.
Screen Dissipation (Zero Signal) ...	...	...	...	...	2 watts max.
Screen Dissipation (Max. Signal) ...	...	...	...	...	4 watts max.
Cathode Current ...	...	...	...	...	65 mA max.

**OPERATING CHARACTERISTICS**

	Single Valve Class A		Push	Pull	Class AB1 (2 Valves)	
Anode Voltage ...	200	250	300	300	300	volts
Anode Current (Zero Signal) ...	50	48	80	80	80	mA
Anode Current (Max. Signal) ...	—	—	92.5	92.5	92.5	mA
Screen Voltage ...	200	250	300	300	300	volts
Screen Current (Zero Signal) ...	5.65	5.5	8.5	8.5	8.5	mA
Screen Current (Max. Signal) ...	—	—	20	20	20	mA
Control Grid Voltage ...	—4.6	—7.3	—10.4	—10.4	—10.4	volts
Cathode Bias Resistor ...	82	140	130	130	130	ohms
Anode Impedance ...	—	38	—	—	—	k Ω
Mutual Conductance ...	—	11.3	—	—	—	mA/V
Optimum Load ...	4	5.2	8	8	8	k Ω
Power Output ...	3.3	5.7	17	17	17	watts
Harmonic Distortion ...	6.5	10	3.18	3.18	3.18	per cent.

**OPERATION AS A TRIODE (Anode and Screen Strapped)  
CLASS AB1 PUSH PULL (2 Valves)**

Anode Voltage ...	...	...	250	300	300	volts
Anode Current (Zero Signal) ...	...	...	41	49	49	mA
Anode Current (Max. Signal) ...	...	...	45	54	54	mA
Cathode Bias Resistor ...	...	...	270	270	270	ohms
Optimum Load (anode to anode) ...	...	...	10	10	10	k Ω
Power Output ...	...	...	3.4	5.2	5.2	watts
Total Distortion ...	...	...	1.8	2.0	2.0	per cent.

**INTER-ELECTRODE CAPACITANCES\***

Input ...	...	...	...	...	11.0 pF
Output ...	...	...	...	...	6.0 pF
Anode to Control Grid ...	...	...	...	...	0.5 pF max.
Heater to Control Grid ...	...	...	...	...	0.25 pF max.

\* With no external shield.

