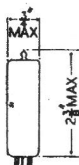


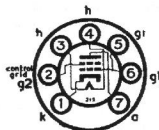
12K5

Current Equipment Type



B7G Base

TYPE 12K5  
MINIATURE  
OUTPUT  
TETRODE



The BRIMAR 12K5 is a miniature tetrode with a space charge grid,  $g_1$ , the control grid being  $g_2$ . The valve is intended for use as a driver stage in A.F. applications in car radio receivers and will operate directly from the 12-volt battery without the use of vibrator H.T. system. It is designed to operate over the range of voltage variation normally encountered with car batteries.

## RATINGS

Heater Voltage	...	...	...	...	...	...	12.6 volts
Heater Current	...	...	...	...	...	...	0.45 amp.
Anode Voltage	...	...	...	...	...	...	30 volts max.
Control Grid ( $g_2$ ) Voltage	...	...	...	...	...	...	-20 volts max.
Control Grid Circuit Resistance	...	...	...	...	...	...	2.2 megohms max.
Space Charge Grid ( $g_1$ ) Voltage	...	...	...	...	...	...	16 volts abs. max.
Space Charge Grid Supply Voltage	...	...	...	...	...	...	30 volts max.
Heater-Cathode Voltage	...	...	...	...	...	...	$\pm 30$ volts max.

## OPERATING CHARACTERISTICS

Anode Voltage	...	...	...	...	...	...	12.6 volts
Space Charge Grid Voltage	...	...	...	...	...	...	12.6 volts
Control Grid Voltage	...	...	...	...	...	...	-2 volts
Anode Current	...	...	...	...	...	...	8 mA
Space Charge Grid Current	...	...	...	...	...	...	85 mA
Mutual Conductance ( $g_m$ to a)	...	...	...	...	...	...	7 mA/V
Anode Impedance	...	...	...	...	...	...	800 ohms
Amplification Factor	...	...	...	...	...	...	5.6

## TYPICAL OPERATION AS A DRIVER STAGE

Anode Voltage	...	...	...	...	...	...	12.6 volts
Space Charge Grid Voltage	...	...	...	...	...	...	12.6 volts
Control Grid Resistor *	...	...	...	...	...	...	2.2 megohms
Input Coupling Capacitor	...	...	...	...	...	...	0.1 $\mu$ F
Signal Source Impedance	...	...	...	...	...	...	100 K $\Omega$
Optimum Load	...	...	...	...	...	...	800 ohms
Anode Current, no signal	...	...	...	...	...	...	35 mA
Anode Current, maximum signal	...	...	...	...	...	...	8 mA
Power Output	...	...	...	...	...	...	35 mW
Distortion	...	...	...	...	...	...	10 per cent.

\* Bias is provided by grid current rectification.

12K5

