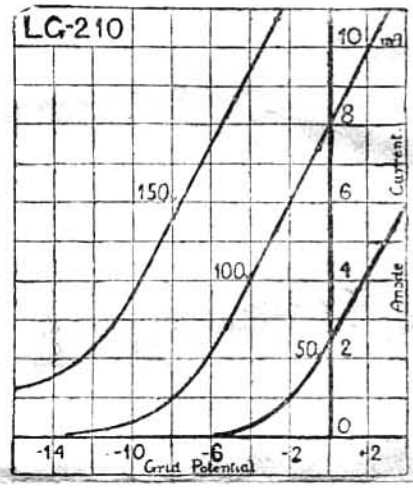
TUNGSRAM BARIUM VALVES

Type LG 210 (Detector and Low Frequency)

for use with a 2-volt accumulator

CHARACTERISTICS

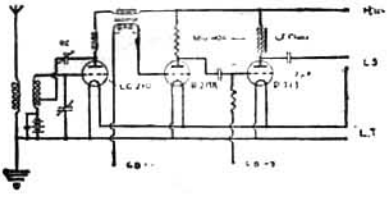


Filament Voltage	**2 Volts max.**
Filament Current	**0·1 Ampere**
Anode Voltage	**50—150 Volts**
Amplification Factor	**10**
Slope (Mutual A. C. Conductance)	**1 mA/Volt**
Impedance (Ohms)	**10,000**
Normal Anode Current	**4 mA**
Total Emission	**20 mA**
Anode Conductance	**100 Micromhos**
Maximum undistorted output at 150 Volts	**100 Milliwatts**

Average constants measured at anode volts 100, zero grid volts.

USE

The **LG 210** is a general purpose valve and is especially suitable as a detector or first stage low frequency amplifying valve. It can also be used as a high frequency valve where **absolute stability** and **freedom from microphonic noises** are essential. When used as detector it may be followed by an intervalve transformer which has a primary resistance of about 1000 to 2000 ohms and a ratio of 3 to 1.



When used as a **grid leak detector** the grid leak should have a resistance of 1 to 2 megohms, and the condenser a value of ·0002 to ·0003 mfd. Used as an **anode bend rectifier** a negative grid bias must be applied as follows: —

Anode voltage	60	90	120	150
Negative grid bias	4½	9	15	21

The values of grid bias in the position of L. F. amplifier are:

Anode voltage	50	100	120	150
Negative grid bias	1·5—2	4·5	6	9

No filament resistance is necessary with this valve, but when used with a 4 — or 6 — volt accumulator, a fixed resistance of 20 or 40 ohms respectively should be inserted in series with the filament.