

# L77

# Osram

  
VALVES

## L77 TRIODE

### DESCRIPTION

The L77 is an indirectly heated triode suitable for operation up to 250 Mc/s. It is mounted on the miniature B7G base.

### RATINGS

Heater Voltage	...	...	...	...	...	...	6.3	volts
Heater Current	...	...	...	...	...	...	0.15	amp
Anode Voltage	...	...	...	...	...	...	300	max. volts
Anode Dissipation	...	...	...	...	...	...	3.5	max. watts
Amplification Factor	...	...	...	...	...	...	17*	
Mutual Conductance	...	...	...	...	...	...	2.2*	mA/V
Impedance	...	...	...	...	...	...	7,700*	ohms

\* Measured at  $V_a=250$ ,  $V_g=-8.5$ ,  $I_a=10.5$  mA.

### Capacitances (taken on unshielded valve) :

Grid to Cathode	...	...	...	...	...	...	1.7	approx. pF
Anode to Cathode	...	...	...	...	...	...	2.6	" "
Grid to Anode	...	...	...	...	...	...	2.0	" "

### SCREENING

No internal or external screening is fitted to the valve. A separate screening canister should be used when application demands.

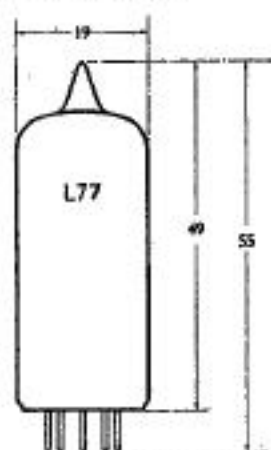
### MOUNTING

Any position.

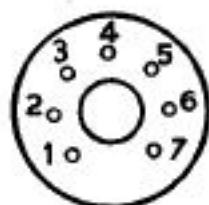
### RETENTION

It is recommended that a retaining device is employed.

### DIMENSIONS



### BASE



View looking on underside of base.

### B7G

Pin 1:	Anode
2:	I.C.
3:	Heater
4:	Heater
5:	Anode
6:	Grid
7:	Cathode

I.C. indicates that this pin must not be used for any external connection.

All dimensions are in mm, and are the maximum except where otherwise stated.

### TYPICAL OPERATING CONDITIONS

#### Class A A.F. Amplifier

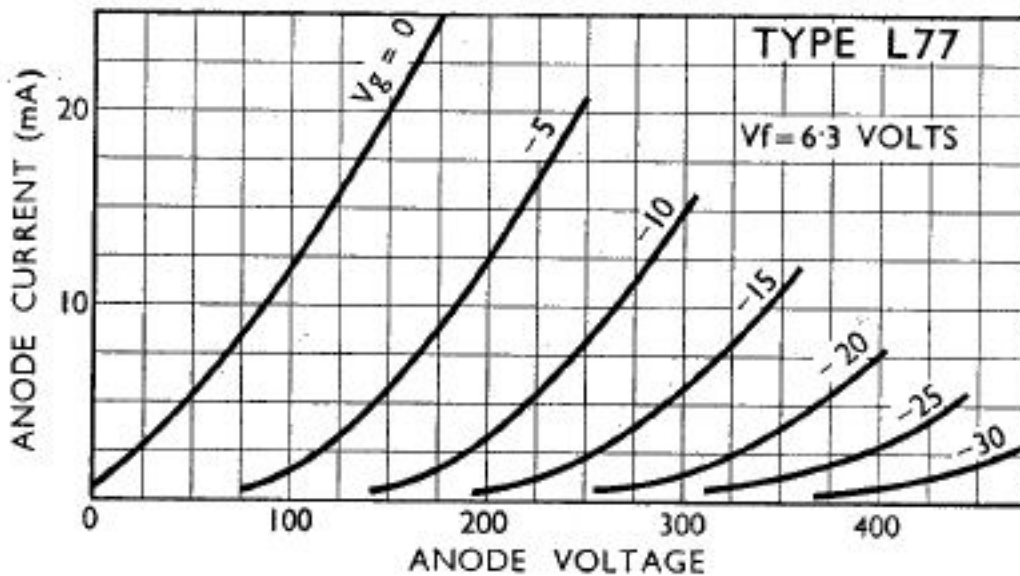
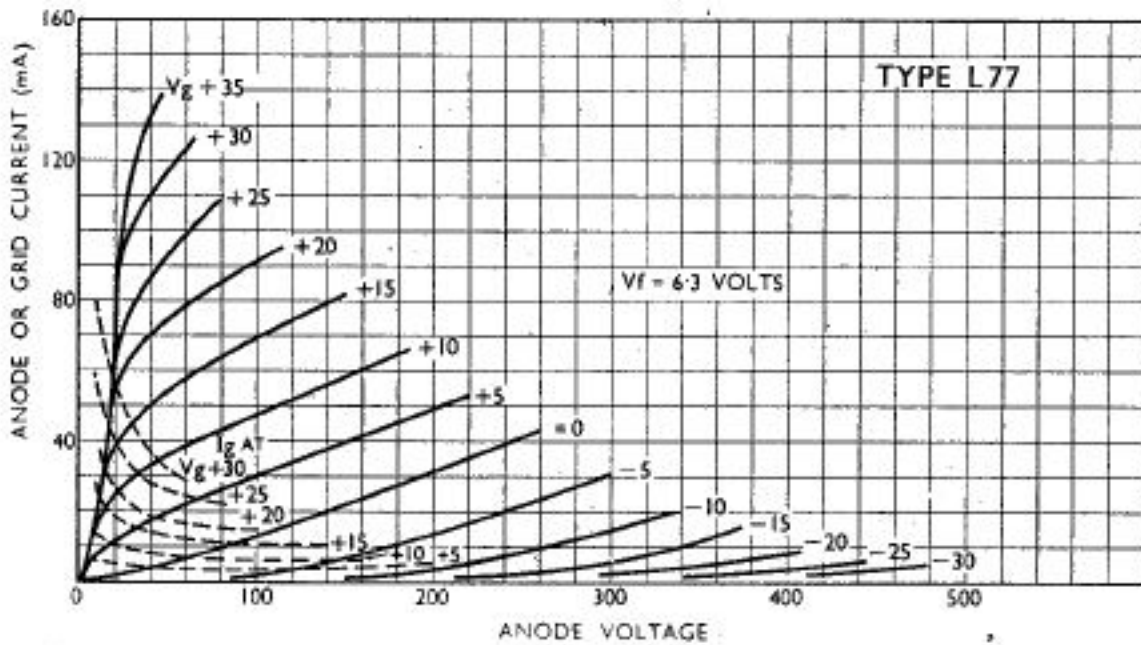
Anode Voltage	...	...	...	...	...	100	250	volts
Grid Voltage	...	...	...	...	...	0	-8.5	volts
Anode Current	...	...	...	...	...	12	10.5	mA
Amplification Factor	...	...	...	...	...	19.5	17	
Impedance	...	...	...	...	...	6,250	7,700	ohms
Mutual Conductance	...	...	...	...	...	3.1	2.2	mA/V

Under maximum rated conditions, the resistance in the grid circuit should not exceed 0.25 megohm with fixed bias or 1 megohm with cathode bias.

# TYPE L77

## R.F. POWER AMPLIFIER AND OSCILLATOR. Class C Telegraphy.

D.C. Anode Voltage	...	...	...	...	...	...	...	300	volts
D.C. Grid Voltage	...	...	...	...	...	...	...	-27	volts
D.C. Anode Current	...	...	...	...	...	...	...	25	mA
D.C. Grid Current	...	...	...	...	...	...	...	7	approx. mA
Input Power	...	...	...	...	...	...	...	0.35	approx. watt
Power Output	...	...	...	...	...	...	...	5.5	approx. watts



CHARACTERISTIC CURVES OF AVERAGE VALVE.