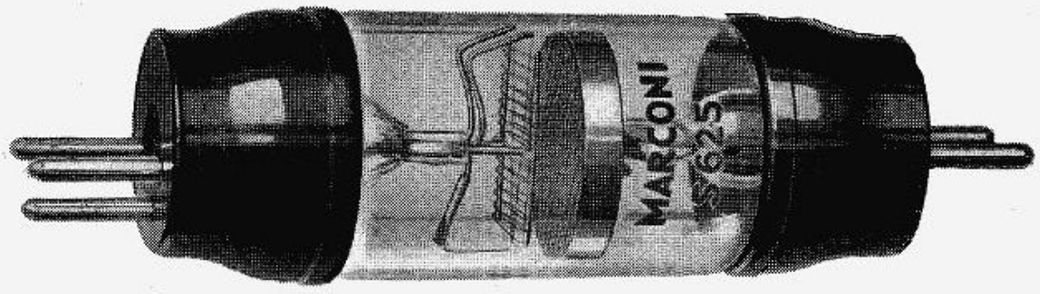
Shielded Receiving Valve

TYPE S.625.

H.F. Amplifier.



(*Approximate overall dimensions :* 127 × 35 *m/m.*)

The Marconi S.625 shielded valve is a high frequency amplifying valve designed specially to eliminate reaction effects, due to inter-electrode capacity, by the use of a shielding grid mounted between the control grid and the anode. The use of the new valve dispenses with the necessity of using neutralising condensers or other stabilising devices, and is equally efficient over a very wide waverange.

The control grid and filament are supported at one end of the glass tube and are connected to a cap ; the anode and shielding grid are mounted in a similar manner at the other end of the tube, thereby reducing to zero the capacity between the leading-in wires connected to the filament and control grid and to those connected to the anode.

The valve should be mounted in a metal screening case in such a manner that the control grid and anode circuits are separated by a metal partition in the same plane as the shielding grid. To obtain the best results care must be taken to avoid reaction coupling between other parts of the circuits.

Approximate Data :

Filament volts	5–6
Filament amperes	0·25
Anode volts (max.)	180

The magnification factor and impedance vary between wide limits with changes of voltage on the electrodes, but the values under typical conditions are as follows :—

Anode volts	120
Screening grid volts	80
Grid volts	0
Magnification factor	110
Impedance (ohms)	175,000

Code Word : IVACU