

Osram Valves

Made in England



Maximum Dimensions :

Overall length (including pins)
120 m/m.

Diameter of bulb 41.5 m/m.

TYPE H42 DETECTOR AND AMPLIFYING TRIODE

With Indirectly Heated Cathode

(For operation from A.C. Mains).

The OSRAM H42 is an Indirectly Heated Cathode Triode for use in the early stages of an audio frequency amplifier, or as a Detector. Due to its high Amplification Factor it is particularly suitable for use in a resistance capacity coupled circuit. The high sensitivity of the valve enables it fully to load a PX4 valve operating at its maximum working condition from an input of 0.5 volt.

In the H42 the grid is taken to a top cap connection which materially reduces the input capacity and prevents severe attenuation of the higher frequencies.

A further feature of the type is its non-microphonic property which is of particular importance when applied to the Detector or early stages in an amplifier.

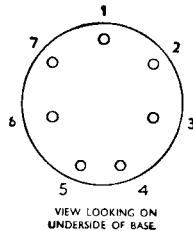
CHARACTERISTICS.

Heater Volts	4.0			
Heater Current	0.6 amp. approx.			
	Max.			
Anode Volts	250	200	150	100
Grid Volts	-2	-1.6	-1.2	-0.8
Anode Current average	1.0	0.9	0.8	0.75 mA
Amplification Factor	100			
Impedance	66,000 ohms.			
Mutual Conductance	1.5 mA/volt			1.7 mA/volt (at Eg = 0.)
Automatic Bias Resistance	2,000 ohms.			
Optimum Load Resistance	200,000 ohms.			

Interelectrode Capacities :

Grid to Anode (others earthed)	3.0 m.mfd. approx.
Anode to other Electrodes	5.3 " "
Grid to Cathode	2.6 " "

For prices see
pages 126-129.



VIEW LOOKING ON
UNDERSIDE OF BASE

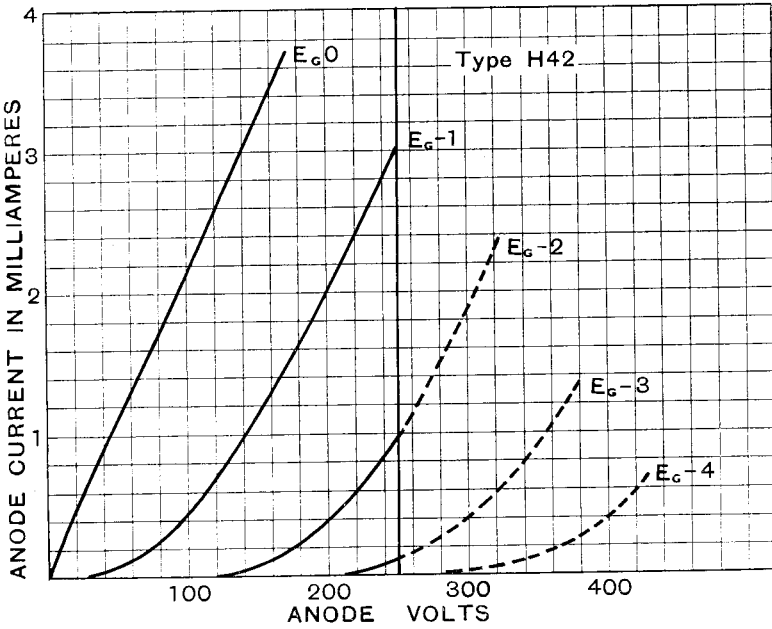
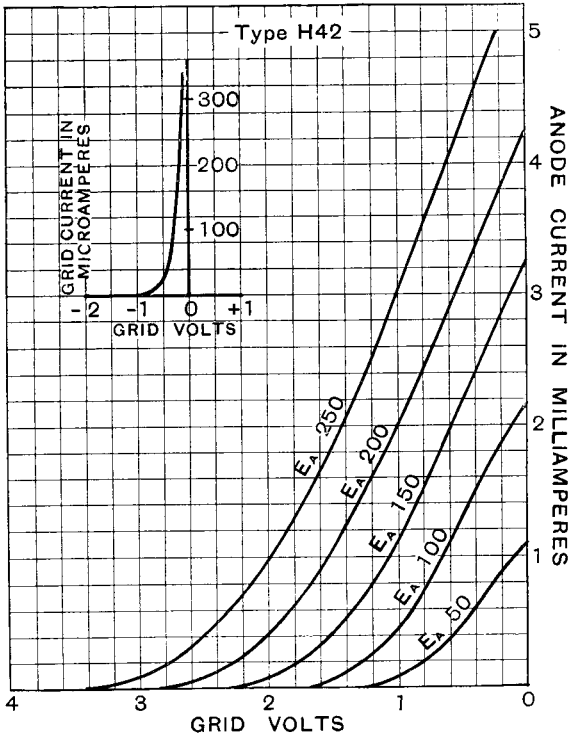
BASE, 7-pin.

- Pin 1 : —
- 2 : —
- 3 : —
- 4 : Heater
- 5 : Heater
- 6 : Cathode
- 7 : Anode

Top Cap : Grid

Type H42 has a carbonised bulb and is supplied unmetallised only.

TYPE H42



CHARACTERISTIC CURVES OF AVERAGE VALVE.