Osram Valves

Made in England

Maximum Dimensions :
Overall length (including pins) 115 m/m.
Diameter of bulb 45 m/m.

TYPE N42

POWER AMPLIFYING PENTODE

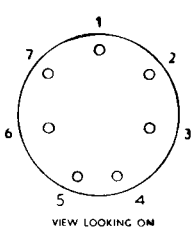
With Indirectly Heated Cathode
(For operation from A.C. Mains).

The OSRAM N42 is a Pentode suitable for use in the output stage of A.C. Receivers. It is capable of providing a large pure undistorted power output with a relatively small input signal voltage. For this reason type N42 should be restricted to use in sets using only one stage of Low Frequency Amplification before it. In a Super-heterodyne Receiver the N42 is suitable for operation following either a Double Diode-Triode of the DH42 type or Triode of the H42 type, preceded by Diode Detection.

CHARACTERISTICS.

Heater Volts		4.0
Heater Current		1.0 amp. approx.
	Max.	
Anode Volts	250	250
Screen Grid Volts	250	250
Mutual Conductance		2.5 ma/volt
Negative Grid Bias		-16.5 volts approx.
Automatic Bias Resistance		420 ohms.
Anode Current average		34.0 m.a.
Screen Current average		5.5 m.a.
Optimum Load Resistance		7,000 ohms.
Anode Dissipation		8 watts max

For prices see pages 126-129.



VIEW LOOKING ON UNDERSIDE OF BASE.

BASE, 7-pin.

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

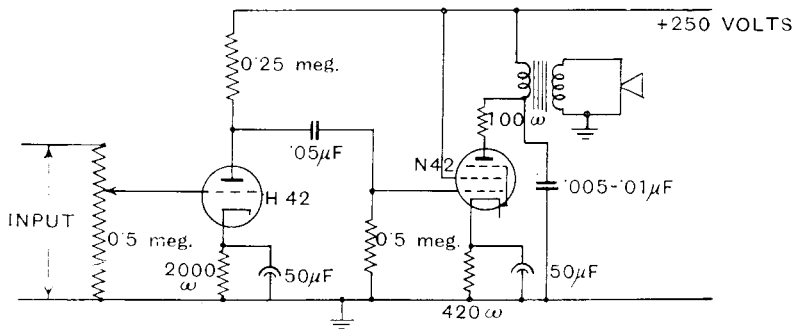
Type N42 has a carbonised bulb.

OPERATING CONDITIONS.

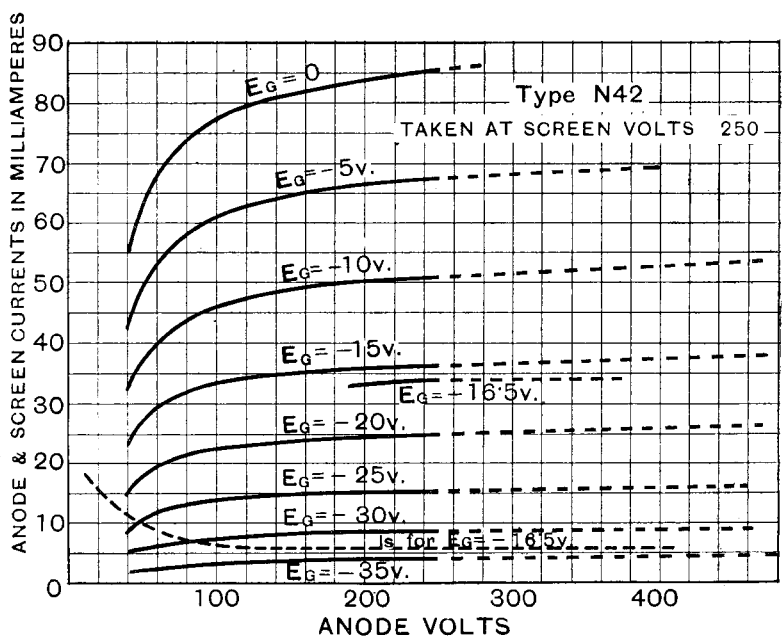
To reduce any tendency to oscillation, a grid stopper of 1,000 ohms or an anode stopper of 100 ohms can be inserted in circuit at the valve holder connections. When employed in a resistance coupled Amplifier preceded by an H42 valve, full output will be obtained from the N42 with an input of 0.15 v. R.M.S. to the H42.

Two N42 valves may be operated in push pull in which case a common bias resistance of 250 ohms may be used, and anode-to-anode load resistance of 11,000 ohms is recommended.

TYPE N42



TYPICAL RESISTANCE COUPLED AMPLIFIER



CHARACTERISTIC CURVES OF AVERAGE VALVE.