Mullard
VARIABLE-MU H.F. PENTODE VP13A

The VP13A is a variable-mu H.F. Pentode for use in D.C./A.C. mains operated receivers and for car radios.

HEATER CHARACTERISTICS

Heater Voltage	Vf = 13·0 volts	
Heater Current	If = 0·2 amp	
Heating Time—60 seconds		

DIMENSIONS

Overall Length ...	= 109 mm.
Overall Diameter...	= 42 mm.
Bulb Finish—Metallised	

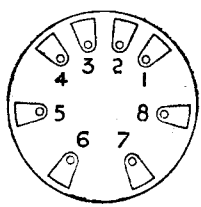
OPERATING CHARACTERISTICS

Normal Anode Voltage	Va_w	= 200 volts
Normal Auxiliary Grid Voltage	$Vg2_w$	= 100 volts
Anode Current (−Vg1 = 2V)	Ia_w	= 4·0 mA
Auxiliary Grid Current	$Ig2_w$	= 1·4 mA
Control Grid Voltage	$-Vg1_w$	= 2 volts
Mutual Conductance (Ia = 4 mA)	S_w	= 2·2 mA/V
Amplification Factor	G_w	= 2,200

LIMITS

Maximum Anode Voltage	Va_{max}	= 200 volts
Maximum Auxiliary Grid Voltage	$Vg2_{max}$	= 100 volts
Maximum Resistance in Grid Circuit	$Rg1_{max}$	= 1·5 megohms
Maximum Voltage Heater to Cathode	Vfk_{max}	= 125 volts
Range of Grid Voltage for 1 μA Grid Current...	Vg1	= −0·5 to −1·0 volt

CONNECTIONS



Viewed from underside of base.

Contact No. 1 Metallising
„ 2 Heater
„ 3 Heater
„ 4 Cathode
„ 5 Suppressor Grid (G3)
„ 6 —
„ 7 Auxiliary Grid (G2)
„ 8 Anode
Top Cap—Control Grid (G1)

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