Mullard
VARIABLE-MU H.F. PENTODE VP13C

The VP13C is a variable-mu H.F. Pentode for use in D.C./A.C. mains operated receivers, and for car radio.

HEATER CHARACTERISTICS

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

DIMENSIONS

Overall Length ...	= 126 mm.
Overall Diameter	= 43 mm.
Bulb Finish—Metallised	

OPERATING CHARACTERISTICS

Normal Anode Voltage	Va_w	= 200 volts
Normal Auxiliary Grid Voltage	$Vg2_w$	= 200 volts
Anode Current	Ia_w	= 9·0 mA
Auxiliary Grid Current	$Ig2_w$	= 3·6 mA
Control Grid Voltage (Ia = 9·0 mA) ...	$-Vg1_w$	= 2·0 volts
Mutual Conductance ($-Vg1_w$ = 2·0 volts) ...	S_w	= 2·2 mA/V

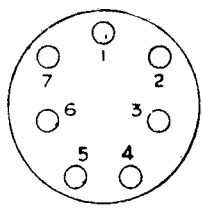
CAPACITIES

Anode-Control Grid	Cag1	= 0·0023 $\mu\mu$F
Output	Ca	= 8·0 $\mu\mu$F
Input	Cg1	= 6·1 $\mu\mu$F

LIMITS

Maximum Anode Voltage...	Va_{max}	= 200 volts
Maximum Anode Dissipation	Wa_{max}	= 2·5 watts
Maximum Auxiliary Grid Voltage	$Vg2_{max}$	= 200 volts
Maximum Auxiliary Grid Dissipation	$Wg2_{max}$	= 0·7 watt
Maximum Resistance Heater to Cathode ...	Rfk	= 20,000 ohms
Maximum Voltage Heater to Cathode	Vfk	= 125 volts
Maximum Resistance in Grid Circuit	$Rg1_{max}$	= 2·5 megohms
Range of Grid Voltage for 1 μA Grid Current ...	Vg1	= −0·1 to −0·7 volt

CONNECTIONS



Viewed from free end of pins

Pin No. 1 Metallising
„ 2 Anode
„ 3 Suppressor Grid (G3)
„ 4 Heater
„ 5 Heater
„ 6 Cathode
„ 7 Auxiliary Grid (G2)
Top Cap—Control Grid (G4)

VP13C

Mullard
VARIABLE-MU H.F. PENTODE