

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	...	...	$V_f = 13.0$ volts	Overall Length	... = 126 mm.
Heater Current	...	...	$I_f = 0.2$ amp.	Overall Diameter	= 43 mm.
Heating Time—60 seconds				Bulb Finish—Metallised	

DIMENSIONS

OPERATING CHARACTERISTICS

Normal Anode Voltage	...	...	...	V_{aw}	= 200 volts
Normal Auxiliary Grid Voltage	...	...	...	V_{g2w}	= 200 volts
Anode Current	...	...	...	I_{aw}	= 9.0 mA
Auxiliary Grid Current	...	...	...	I_{g2w}	= 3.6 mA
Control Grid Voltage ($I_a = 9.0$ mA)	...	...	...	$-V_{g1w}$	= 2.0 volts
Mutual Conductance ($-V_{g1w} = 2.0$ volts)	...	...	...	S_w	= 2.2 mA/V

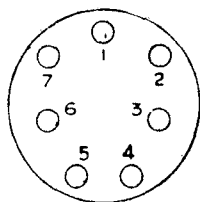
CAPACITIES

Anode-Control Grid	...	...	...	C_{ag1}	= 0.0023 $\mu\mu\text{F}$
Output	...	...	...	C_a	= 8.0 $\mu\mu\text{F}$
Input	...	...	...	C_{g1}	= 6.1 $\mu\mu\text{F}$

LIMITS

Maximum Anode Voltage...	...	...	...	V_{amax}	= 200 volts
Maximum Anode Dissipation	...	...	...	W_{amax}	= 2.5 watts
Maximum Auxiliary Grid Voltage	...	...	...	V_{g2max}	= 200 volts
Maximum Auxiliary Grid Dissipation	...	...	...	W_{g2max}	= 0.7 watt
Maximum Resistance Heater to Cathode	...	...	...	R_{fk}	= 20,000 ohms
Maximum Voltage Heater to Cathode	...	...	...	V_{fk}	= 125 volts
Maximum Resistance in Grid Circuit	...	...	...	R_{g1max}	= 2.5 megohms
Range of Grid Voltage for 1 μA Grid Current	...	...	...	V_{g1}	= -0.1 to -0.7 volt

CONNECTIONS



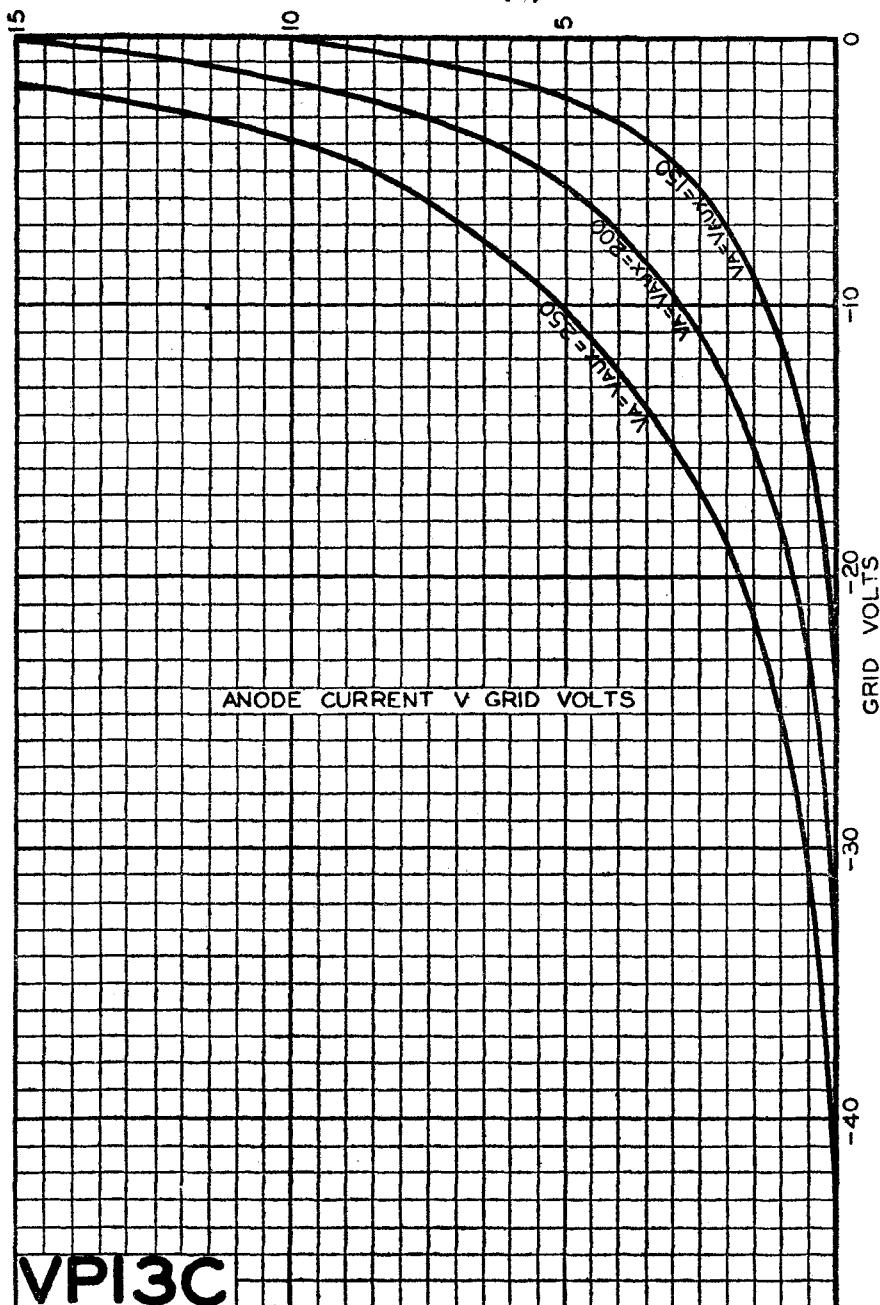
Viewed from free end of pins

- Pin No. 1 Metallising
 „ 2 Anode
 „ 3 Suppressor Grid (G_3)
 „ 4 Heater
 „ 5 Heater
 „ 6 Cathode
 „ 7 Auxiliary Grid (G_2)
 Top Cap—Control Grid (G_4)

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ANODE CURRENT (mA)



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