

VP.210 BATTERY H.F. SCREENED PENTODE

RATING.								
Filament Voltage .								2.0
Filament Current		.)			•••		• • • •	0.1
Maximum Anode V							• • •	150
Maximum Screen \	√olts			•••	•••		• • • •	150
Mutual Conductan	ce (m.	A/V)		• • •	•••	•••		† I · 4 0
	†Ea=	= 120 ;	Es = 6	60; Eg	=0.			
OPERATING COND	ITIO	NS.						
Anode Voltage .							120	120
					• • •		60	70
					• • •		1.5	1.5
Anode Current (m	A)	•••			· · · · ·		1.1	1.8
Screen Current (m	ıA)	•••		•••			0.385	0.63
Mutual Conductant	ce (m	A/V)					0.82	1.03
Anode AC Resistar	nce (m	negohr	ns)	•••,	•••	•••	1-45	0.89
INTER-ELECTRODE	CAF	ACIT	TIES.		,			
							11	\cdot 0 $\mu\mu$ F
	•						8.	75 μμF 04 μμF
Anode to Grid					•••	•••	0.0	04 μμF
						1		
*" Earth " denote metallising joined			uning	eartny	poten	ciai	electrod	es and
DIMENSIONS.								
Maximum Overall	Lengt	h					- 13	25 mm.
Maximum Diamete				•••	•••	•••	:	39 mm.

GENERAL.

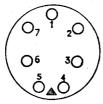
The VP.210 is a variable-mu H.F. Pentode for use in battery operated receivers. The valve is based in a standard 7-pin base, the connections to which are given overleaf.

APPLICATION.

The valve has variable-mu characteristics with high signal handling capacity, suitable for use in H.F. amplifiers, or as a frequency changer with a separate oscillator. The screen volts should preferably be obtained by means of a dropping resistance from the full H.T. supply, as this reduces detector overloading to a great extent. When used as an H.F. amplifier, an initial screen voltage of the order of 60 volts is recommended at the minimum bias of 1.5 volts, and when used under these conditions will form part of the delay voltage in receivers provided with A.V.C. If desired, this voltage may be slightly increased or decreased, provided the initial screen volts are suitably re-adjusted to give the maximum gain. The suppressor grid and metallising should be connected to earth. When used as a frequency changer, cathode injection is recommended, and a suitable valve for the oscillator stage is the HL.2. A heterodyne voltage of 3 volts peak is suitable, and an initial screen voltage of 40 to 70 according to whether the valve is self-biased by its own grid current or provided with separate grid bias.



BASING.



Viewed from the free end of the base.

Pin No. I. Metallising.

2. Control Grid.

Suppressor Grid.
 Filament.

5. Filament.

6. — 7. Screen.

Top Cap. Anode.

