

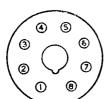
A.C. MAINS H.F. PENTODE

7.0. 1171110		:			_	
RATING.						
Heater Voltage					•••	4.0
Heater Current (amps)						0.65
Maximum Anode Voltage						250
Maximum Screen Voltage					• • •	250
*Mutual Conductance (mA/V)					•••	3.0
*Taken at Ea=2	50;	Es = 200	; Eg=	=0.		
TYPICAL OPERATION.			. •			
Anode Voltage		•••			250	250
Screen Voltage		•••			200	250
COLDON V. K					2.7	4.0
A					7.7	8.6
Screen Current (mA)					2.0	2.3
Mutual Conductance (mA/V)					2.0	2.0
Anode A.C. Resistance (ohms)		•••			Ī.š	ī.ž
Grid Bias for Mutual Conductai					35.4	44.2
Input Capacity Working ($\mu\mu$ I		•••	•••	•••	7.8	7.8
Change in Input Capacity prod	uced					
to cut-off (\triangle .C.) ($\mu\mu$ F)				•••	1.1	1.1
Input Loss at 45 Mc (ohms)					10,000	0.000
†Maximum Peak Carrier Input			•••		8.0	10.0
			•••	•••	33.0	41.0
†For 5 per cent. Total Harmon					t Modul	ation
•			uc oo p	C. CC		
INTER-ELECTRODE CAPACIT						_
*Anode to Earth		•••		•••	11.5 6.5	$\mu\mu$ r
*Grid to Earth		•••	•••		6.5	$\mu\mu$
Anode to Grid	. •••				0.002	$\mu\mu$ r
*" Earth" denotes the remain	ing	earthy	poten	tial el	ectrodes	and
metallising joined to cathode.						
DIMENSIONS.						
Maximum Overall Length		• • • •		• • •		mm.
Maximum Diameter			•••		32	2 mm.
GENERAL						

The VP.41 is a variable-mu screened pentode designed for use in A.C. Mains receivers, and is particularly suitable for use in the H.F. stage of television receivers when a variable-mu characteristic is required. Modulation hum has been eliminated due to the provision of a non-inductive heater. The bulb is of small dimensions and metallised. The valve is fitted with a British Octal Base, the connections to which are given overleaf. APPLICATION.

The valve has a large signal handling capacity, and will accept a modulated signal of over 10 volts peak carrier at bias without distortion, and cross-modulation has been reduced to a very low value for all values of grid bias. Under normal conditions the valve should be operated with self bias on the cathode, and the screen fed either directly from the H.T. line or through a series dropping resistance, according to whether it is necessary to decouple the screen from the point of view of stability. In the H. F. stage an initial screen voltage of 200 will prove satisfactory. When the valve is employed in the I.F. stage it is essential to apply only a fraction of the A.V.C. voltage to the last I.F. valve, unless a local distance switch is employed. When used with the TH.41 valve approximately half the A.V.C. voltage should be employed.

EDISWAN RADIO =



BASING.

Pin No. I. Heater.

Cathode.

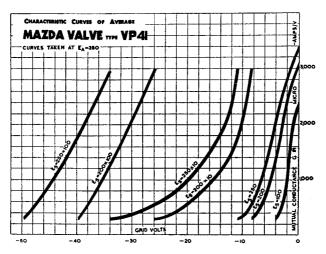
3. Anode. Screen.

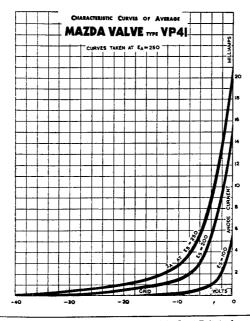
Suppressor Grid. Metallising.

Omitted.

Heater. Control Grid. Top Cap.

Viewed from the free end of the base.





Marda Radio Valves are manufactured in Great Britain for the British Thomson-Houston Co. Ltd., London and Rugby.