MAZDA

6.F.15

VARIABLE MU R. F. PENTODE Indirectly heated – for parallel operation

RATING				
Heater Voltage (volts) Heater Current (amps) Maximum Anode Voltage (volts) Maximum Screen Voltage (volts) Maximum Cathode Current (mA) Mutual_Conductance (mA/V)	Vh Ih Va(max) Vg2(max) Ik(av)max gm	6.3 0.2 250 250 10 [2.3 [1.7		
Anode Impedance (megohm) Inner µ	ra Pgl,g2	[1.7 16.5		
Maximum Potential Heater/Cathode (volts D.C.)	Vh,k(max)	150		
[Taken at $V_a = 250v$; $V_{g2} = 10$	00v; V _{gl} = -2.5v.			
INTER-ELECTRODE CAPACITANCES	q ·	II		
Anode/Earth (µµF) Cout Anode/Grid (µµF) Ca,El Grid/Earth (µµF) Cin	6.8 .0034 5.1	8.3 .0035 6.6		
¶ Inter-electrode capacitances capacitance balanced out.	with holder			
Including a Benjamin B8A hold of 1 Mc/s with vertical scree between pins 3-4 and 7-8.	er at a frequence on fitted to hold	y e r		
"Earth" denotes the remaining electrodes, shields and heate	earthy potentia r joined to cath	l ode.		
DIMENSIONS				
Maximum Overall Length (mm)		67		
Maximum Diameter (mm)		22		
Maximum Seated Height (mm)	54			
Radius Over Location Key (mm)	12.25			
• • •				
Approximate Packed Weight (ozs)		1		
MOUNTING POSITION Unrestricted.				

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1				
	TYPICAL OPERATION			
	Anode Voltage (volts) Screen Voltage (volts) Grid Bias Voltage (volts-ve) Anode Current (mA) Screen Current (mA) Mutual Conductance (mA/V) Anode Impedance (megohms) Input Loss at 45 Mc/s (ohms) Input Capacitance Working	Va Vg2 Vg1 Ia Ig2 Sm ra rg1,k(w)	250 100 2.5 7.0 2.0 2.3 1.7 24,000	250 250
	(Hot) (puF) Change in input capacitance	$c_{in(w)}$	* 6.1	
	produced by biassing valve	C _{in(w)}	0.9	
	of 100 µA/V. Bias to give mutual conductance	$v_{\tt gl}$		27
Į	of 23 µA/V.	v_{g1}	13.3	34
	Equivalent grid noise resist- ance (ohms)	$\mathtt{r}_{e\mathbf{q}}$	6,000	

 Inter-electrode capacitance with holder capacitance balanced out.

BULB Clear

BASE B8A



Viewed from free end of pins.

CONNEXIONS

Pin 1	Heater	h
Pin 2	Anode-	a
Pin 3	Internal Shield	s
Pin 4	Suppressor Grid	g3
Pin 5	Screen Grid	g2
Pin 6	Control Grid	gī
Pin 7	Cathode	ķ
Pin 8	Heater	'n

NOTE

In use pins 3 and 4 should be joined and earthed.

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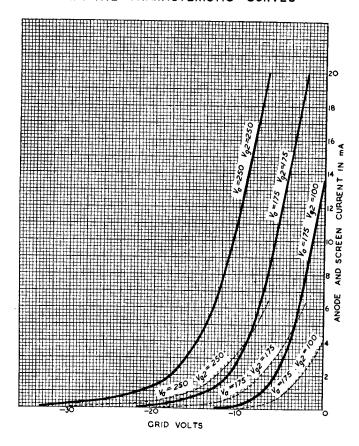
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TENTATIVE CHARACTERISTIC CURVES



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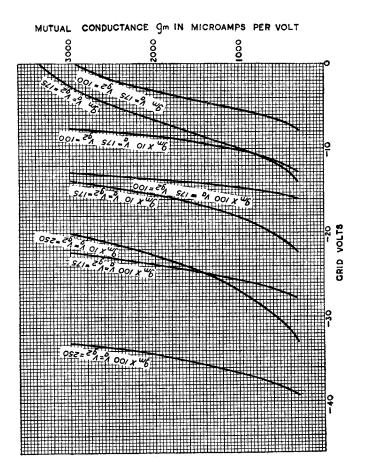
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