MAZDA

11.E.3

BEAM POWER AMPLIFIER Indirectly heated – for Pulse Amplification

RATING		ì
Heater Voltage (volts) Heater Current (amps)	Vh Ih	4.2 2.5
Maximum Anode Voltage as Series Modulator (volts DC)	Va(max)	3,500
Maximum Peak Anode Voltage as Break Modulator (volts) Maximum Screen Voltage (volts)	Va(pk)max Vg2(max)	12,500 700
Maximum, Control Grid Negative Bias (volts-ve) Maximum Peak Cathode Current (amps)	Vgl(max)	-700 † 3.5
Inner µ Maximum Anode Dissipation (watts)	Ik(pk)max Ug1-g2 Wa(max)	\$ 9.0 10.0
Maximum Screen Dissipation as Series Modulator (watts)	Wg2(max)Series	0.9
Maximum Screen Dissipation as Break Modulator (watts) Maximum Potential Heater/Cathode	Wg2(max)Break	2.0
(volts DC)	Vh-k(max)	150
t Taken under Pulse Conditions		

- f Taken under Pulse Conditions of approximately 10 micro-seconds duration and 400:1 minimum off-on ratio.
- : Taken at $V_a = 200$; $V_{g2} = 200$; $I_a = 40$ mA.

INTER-ELECTRODE CAPACITANCES

Anode/Earth (puF) Anode/Control Grid (puF)	$c_{ ext{out}}_{ ext{Ca-gl}}$	7.5 0.26
Control Grid/Earth (ppF)	Cin	20

"Earth" denotes the remaining earthy potential electrodes and heater joined to cathode.

DIMENSIONS

		1
	Maximum Overall Length (mm)	140
	Maximum Diameter (mm)	54
ļ	Maximum Seated Height (mm)	125
I	Approximate Nett Weight (ozs)	125 2 1
į	Approximate Packed Weight (ozs)	$\tilde{7}$

MOUNTING POSITION - Vertical

NOTE

This valve is intended for use as a break or series modulator with a short duration pulse input signal. When the equipment may be subjected to reduced atmospheric pressures the peak voltage between the control grid and Screen grid should not exceed 1,200 volts.

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TYPICAL OPERATION		Series Modulator	Break Modulator
Quiescent Anode Voltage (volts) Screen Voltage (volts) Signal Voltage Positive	Va(o) Vg2	3,500 500	500 500
(volts)		50	25
Peak Anode Current (amps)	Ia(pk)	2	1
Approximate Knee Voltage (volts)		200	
Peak Anode Output Voltage (volts)		3,300	10,000
Approximate Peak Grid Current (amps)	Igl(pk)	0.12	0.05

CAP BVA Standard

BULB Clear

11.6.3

BASE British 7 Pin.



Viewed from free end of pins.

CONNEXIONS

Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Pin 6 Pin 7 Top Cap	Blank Control Grid Blank Heater Heater Cathode Screen Grid Anode	g1 - n - n - n - n - n - n - n - n - s - s - s - s - s - s - s - s - s - s
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