

MAZDA

1.F.3.

VARIABLE - Mu R. F. PENTODE
Directly heated - for battery operation
TENTATIVE

RATING

Filament Voltage (volts)	V_f	1.4
Filament Current (amps)	I_f	.05
Maximum Anode Voltage (volts)	$V_a(\max)$	90
Maximum Screen Voltage (volts)	$V_{g2}(\max)$	67.5
Maximum Screen Supply Voltage (volts)	$V_{g2}(b)$	90
Maximum Mean Cathode Current (mA)	$I_{k(av)}\max$	5.5

INTER-ELECTRODE CAPACITANCES

		§	‡
Grid/Anode ($\mu\mu F$) (max)	$C_{a,g1}$	0.01	0.012
Grid/Earth ($\mu\mu F$)	C_{in}	4.1	5.2
Anode/Earth ($\mu\mu F$)	C_{out}	7.5	8.6

§ Measured with Benjamin cylindrical screen type 75/832, but holder capacitance balanced out.

‡ Total capacitance including a Benjamin B7G holder type 75/833 and screen type 75/832.

DIMENSIONS

Maximum Overall Length (mm)	54
Maximum Diameter (mm)	19.0
Maximum Seated Height (mm)	47.6
Approximate Nett Weight (ozs)	0.25
Approximate Packed Weight (ozs)	0.5

MOUNTING POSITION - Unrestricted.

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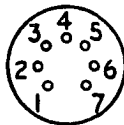
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TYPICAL OPERATION

Anode Voltage (volts)	Va	45	67.5	90	90
Screen Voltage (volts)	Vg2	45	67.5	45	67.5
Control Grid Bias (volts)	Vg1	0	0	0	0
Anode Current (mA)	Ia	1.6	3.3	1.7	3.4
Screen Current (mA)	Ig2	0.7	1.5	0.65	1.4
Anode Impedance (megohms)	ra	0.35	0.25	0.8	0.5
Mutual Conductance (mA/V)	gm	0.65	0.95	0.7	0.97
Grid Bias for mutual conductance = 10 μ A/v	Vg1	-8.5	-14	-8.5	-14

BULB Clear

BASE B.7.G.



Viewed from free end of base:

CONNEXIONS

Pin 1	Filament -ve	f-
Pin 2	Anode	a
Pin 3	Screen Grid	g2
Pin 4	No Connection	-NC
Pin 5	Filament -ve and Grid 3	f-
Pin 6	Control Grid	g1
Pin 7	Filament +ve	f+