MAZDA
6.F.11
SCREENED R.F. PENTODE
Indirectly heated — for parallel operation

RATING

Heater Voltage (volts) $V_h$ 6.3
Heater Current (amps) $I_h$ 0.2
Maximum Anode Voltage (volts) $V_a(\text{max})$ 250
Maximum Screen Voltage (volts) $V_g2(\text{max})$ 150
Maximum Cathode Current (mA) $I_k(\text{av})\text{max}$ 10
Mutual Conductance (mA/V) $\mu_m$ 2.2
Anode Impedance (megohms) $r_a$ 2.8
Inner $\mu$ $\mu_{gl-g2}$ 26
Maximum Potential Heater/Cathode (volts DC) $V_{n-k}(\text{max})$ 150

* Taken at $V_a = 250v$; $V_g2 = 100v$; $V_{gl} = 1.8v$.

INTER-ELECTRODE CAPACITANCES $^\dagger$ $^q$

Anode/Earth ($\mu\text{F}$) $C_{out}$ 6.7 8.2
Anode/Grid ($\mu\text{F}$) $C_{a-g1}$ 0.0039 0.004
Grid/Earth ($\mu\text{F}$) $C_{in}$ 5.3 6.8

$^\dagger$ Inter-electrode capacitances with holder capacitance balanced out.

$^q$ Including a Benjamin B.8.A. holder at a frequency of 1 Mc/s with vertical screen fitted to holder between pins 3-4 and 7-8.

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

DIMENSIONS

Maximum Overall Length (mm) 67
Maximum Diameter (mm) 22
Maximum Seated Height (mm) 54
Radius Over Location Key (mm) 12.25
Approximate Nett Weight (ozs) 5
Approximate Packed Weight (ozs) 1

MOUNTING POSITION - Unrestricted
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BULB Clear
BASE B.S.A.

Viewed from free end of pins.

CONNECTIONS

Pin 1  Heater  h
Pin 2  Anode  a
Pin 3  Internal Shield  s
Pin 4  Suppressor Grid  s3
Pin 5  Screen Grid  s2
Pin 6  Control Grid  s1
Pin 7  Cathode  k
Pin 8  Heater  h

NOTE: Pin 8 should preferably be connected to "earth" potential.
In use pins 3 and 4 should be joined and earthed.
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AVERAGE CHARACTERISTIC CURVES
Curves taken at $V_g=250$

GRID VOLTS

ANODE CURRENT IN mA

August 1948

RADIO DIVISION
THE EDISON SWAN ELECTRIC COMPANY LTD.
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AVERAGE CHARACTERISTIC CURVES

ANODE CURRENT IN mA

Curves taken at $\frac{E_2}{E_1} = 0.5$

August 1948

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