

EHW.3000

# EDISWAN

## EHW.3000

### WATER COOLED TRIODE

#### GENERAL

The EHW.3000 is a triode designed for use as a radio-frequency amplifier or oscillator. The anode is water-cooled and is capable of dissipating up to 3 kilowatts, depending upon the class of service. The design minimizes lead inductance and makes the valve particularly suitable for high frequency applications.

#### RATING

|                                            |              |          |
|--------------------------------------------|--------------|----------|
| Filament Voltage (volts)                   | $V_f$        | 8.0      |
| Filament Current (amps)                    | $I_f$        | 80.0     |
| Maximum Anode Voltage (volts)              | $V_a(\max)$  | 7,500    |
| Average Maximum Filament Emission (amps)   | $F_{em(av)}$ | 4.5      |
| Maximum Anode Dissipation (watts)          | $P_a(\max)$  | 3,000    |
| Mutual Conductance (mA/V)                  | $g_m$        | • 5.5    |
| Amplification Factor                       | $\mu$        | • 55     |
| Anode Impedance (ohms)                     | $r_a$        | • 10,000 |
| Maximum Operating Frequency at full rating |              | :10 Mc/s |

• Taken at  $V_a = 7,000v$ ;  $I_a = 400 \text{ mA}$ .

: At higher frequencies the maximum permissible anode voltages and inputs must be reduced.

#### INTER-ELECTRODE CAPACITANCES

|                             |           |      |
|-----------------------------|-----------|------|
| Anode/Grid ( $\mu pF$ )     | $C_{a,g}$ | 11.0 |
| Anode/Filament ( $\mu pF$ ) | $C_{a,f}$ | 1.0  |
| Grid/Filament ( $\mu pF$ )  | $C_{g,f}$ | 12.0 |

WATER FLOW 2 gallons per minute

AIRFLOW 15 Cubic feet should be directed on to the seals.

#### DIMENSIONS

|                                       |     |
|---------------------------------------|-----|
| Maximum Overall Length (mm)           | 245 |
| Maximum Diameter (mm)                 | 70  |
| Approximate Nett Weight (lb)          | 4   |
| Approximate Packed Weight (lb)        | 11  |
| Approximate Export Packed Weight (lb) | 14  |

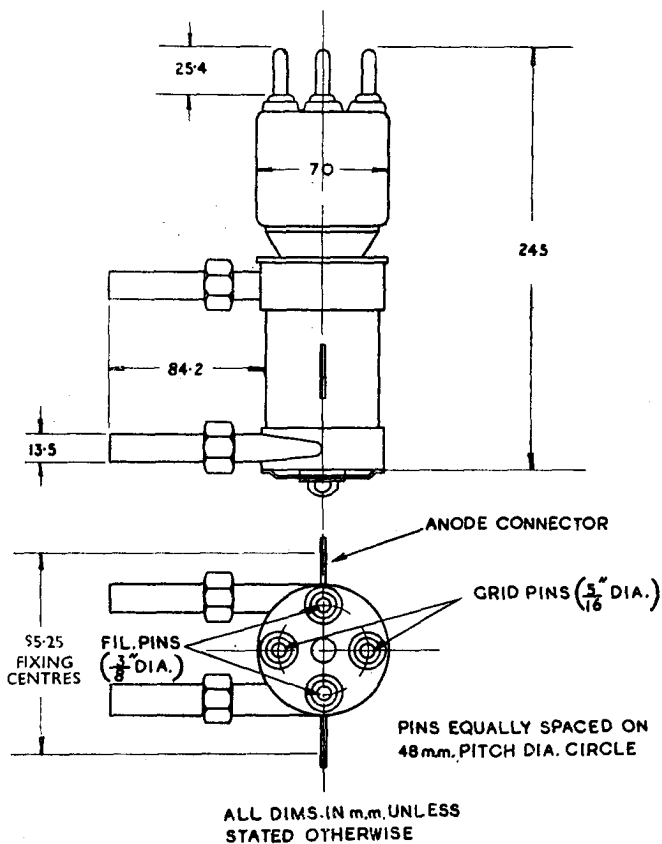
MOUNTING POSITION - Vertical

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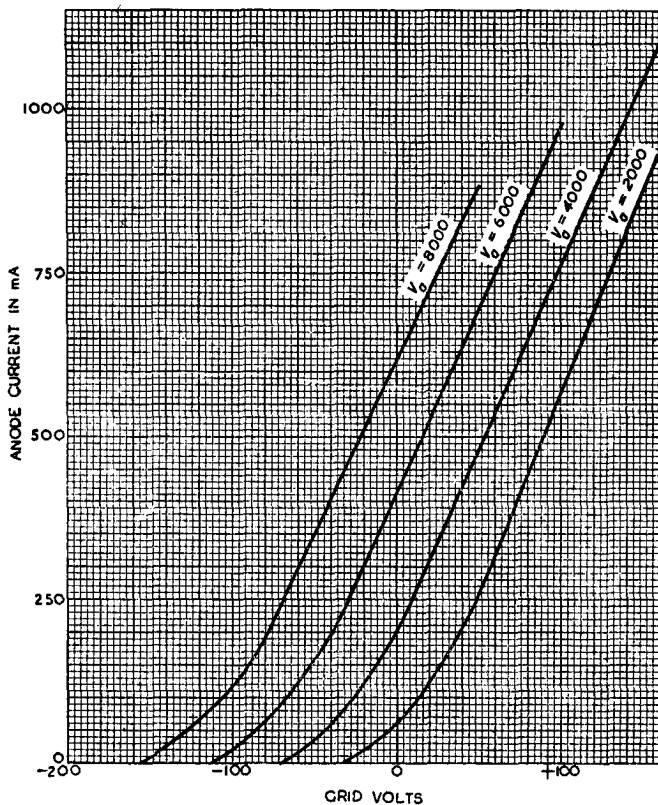
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**AVERAGE CHARACTERISTICS**



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### AVERAGE CHARACTERISTICS

