

ESW5000
WATER COOLED TRIODE
 (Previously EHW5000)

GENERAL

The ESW 5000 is a directly heated three electrode power valve designed for use as a radio - frequency amplifier, oscillator or Class 'B' modulator. It is an exact equivalent to the American GL869.

RATING

Filament Voltage (volts)	V_f	11
Filament Current (amps)	I_f	125
Maximum Anode Voltage (volts)	$V_a(\text{max})$	8,500
Maximum Filament Emission (amps)	F_{em}	9
Maximum Anode Dissipation (k.W.)	$W_a(\text{max})$	5
Mutual Conductance (mA/V)	g_m	10
Amplification Factor	μ	20
Anode Impedance (ohms)	r_a	2,000
Maximum Operating Frequency at full rating		25 Mc/s
R.F. Power Output (kW)	P_{out}	10

INTER-ELECTRODE CAPACITANCES

Anode/Grid (μpF)	C_{a-gl}	20.7
Anode/Filament (μpF)	C_{a-f}	2.5
Grid/Filament (μpF)	C_{gl-f}	19.5

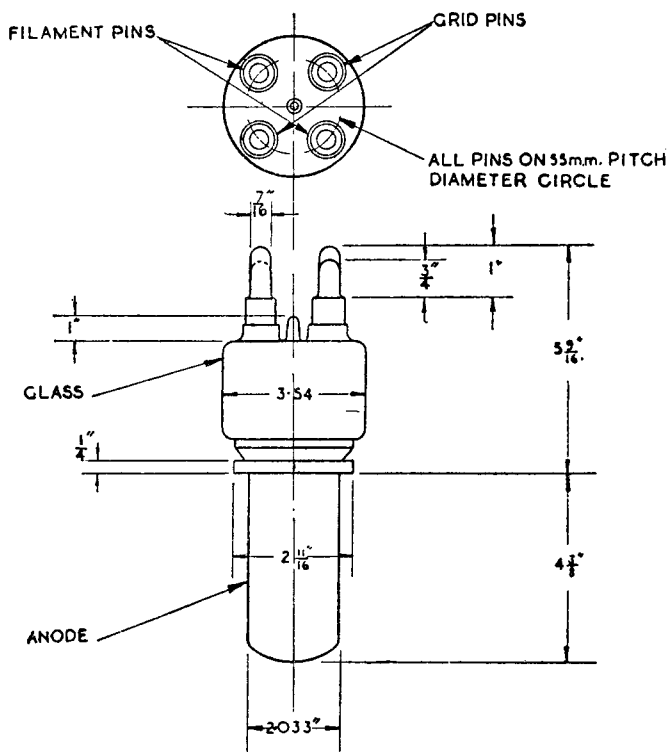
Water Flow (MAIN) 3 - 6 gallons per minute

AIR FLOW 15 cubic feet per minute should be directed on to seals.

DIMENSIONS

Maximum Overall Length (mm)	267
Maximum Diameter (mm)	90

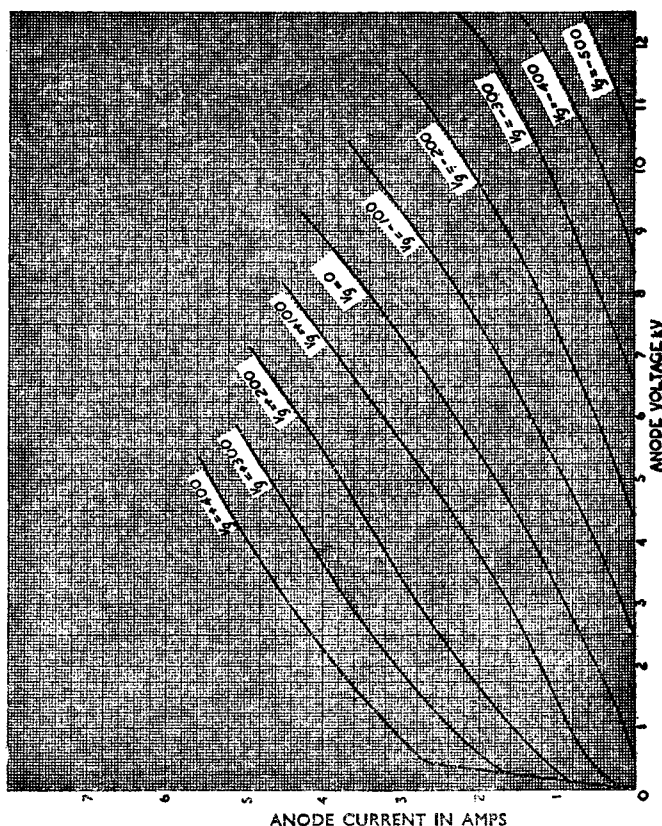
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All dimensions in mm. unless otherwise stated

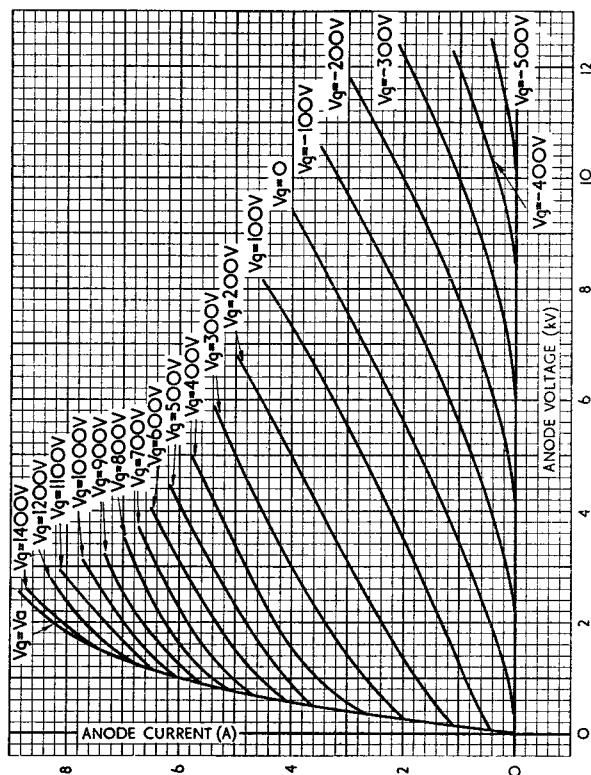
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AVERAGE CHARACTERISTIC CURVES



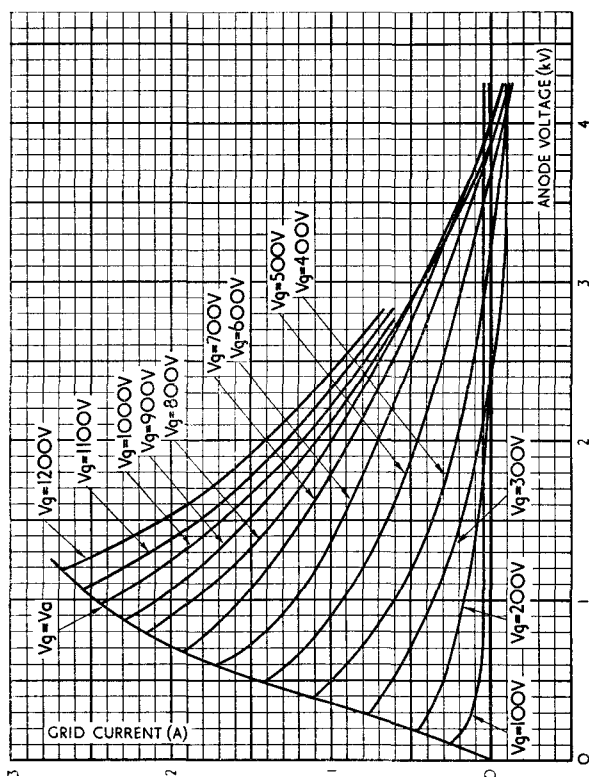
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AVERAGE CHARACTERISTIC CURVES: I_a/V_a
($V_f = 11$ Volts A.C.)



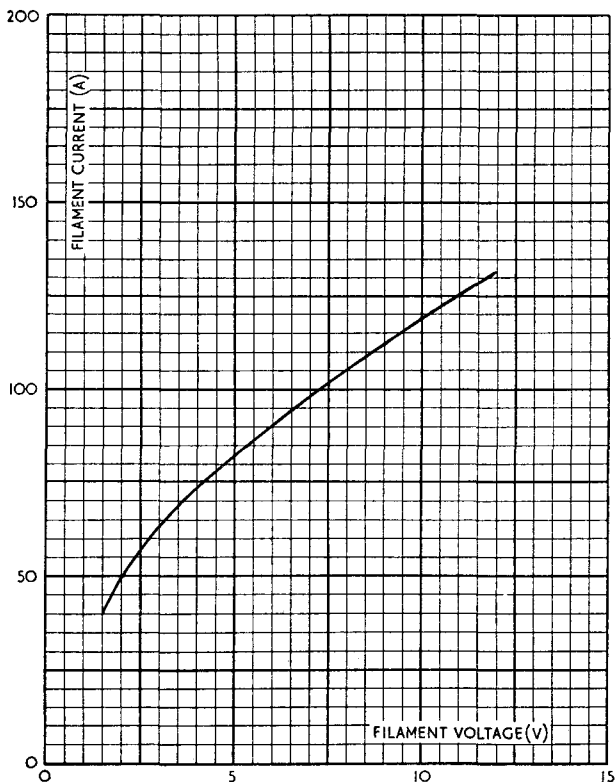
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CHARACTERISTIC CURVES: I_g/V_a
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AVERAGE CHARACTERISTIC CURVE: I_f/V_f
(Cold resistance = 0.0003Ω)



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CHARACTERISTIC CURVE: I_{em}/V_f

