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 G1.689.

RATING
Filament Voltage (volts) \( V_f \)
Filament Current (amps) \( I_f \)
Maximum Anode Voltage (volts) \( V_a(\text{max}) \)
Maximum Filament Emission (amps) \( F_{\text{em}} \)
Maximum Anode Dissipation (kW.) \( W_a(\text{max}) \)
Mutual Conductance (mA/V) \( g_m \)
Amplification Factor \( \mu \)
Anode Impedance (ohms) \( r_a \)
Maximum Operating Frequency at full rating
R.F. Power Output (kW)

INTER-ELECTRODE CAPACITANCES
Anode/Grid (pF) \( C_{a-g1} \)
Anode/Filament (pF) \( C_{a-f} \)
Grid/Filament (pF) \( C_{g1-f} \)

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

ANODE VOLTAGE (V)
ANODE CURRENT (A)

December, 1951
Associated Electrical Industries Limited
Electronic Components Division
Tel.: GERRARD 9797
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AVERAGE CHARACTERISTIC CURVES: \( I_a/V_a \)
\((V_f=11 \text{ Volts A.C.})\)
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CHARACTERISTIC CURVES: $I_g/V_a$
($V_f = 11$ Volts A.C.)
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AVERAGE CHARACTERISTIC CURVE: $I_f/V_f$
(Cold resistance $= 0.0003 \, \Omega$)
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CHARACTERISTIC CURVE: \( I_{em}/V_f \)