



ES85

RADIATION COOLED TRIODE

GENERAL

The ES85 is a directly heated Thoriated tungsten filament triode, designed to operate as a Class B amplifier or modulator and as a Class C amplifier or oscillator.

RATING

Filament Voltage (volts)	V_f	10
Filament Current (amps)	I_f	3.25
Maximum Anode Voltage (kV)	$V_{a(max)}$	1.25
Maximum Anode Dissipation (watts)	P_a	85
Mutual Conductance (mA/V)	g_m	3.7
Amplification Factor*	μ	12.7
Anode Impedance (ohms)	r_a	3,450
Maximum Operating Frequency at Full Rating (Mc/s)		6
Maximum Audio Output 2 Valves (watts) (Class B Push-Pull)	P_{out}	310
Distortion at Maximum Output	D_{tot}	3%

* Taken at $V_a = 1 \text{ kV}$; $V_g = -55 \text{ v.}$

INTER-ELECTRODE CAPACITANCES (pF)

Anode/Grid	c_{ga}	13
Anode/Filament	c_{out}	4
Grid/Filament	c_{in}	6.5

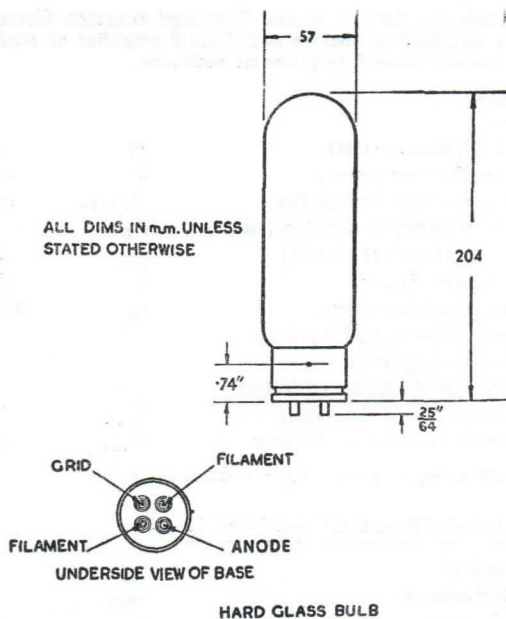
DIMENSIONS

Maximum Overall Length (mm)	204
Maximum Diameter (mm)	57

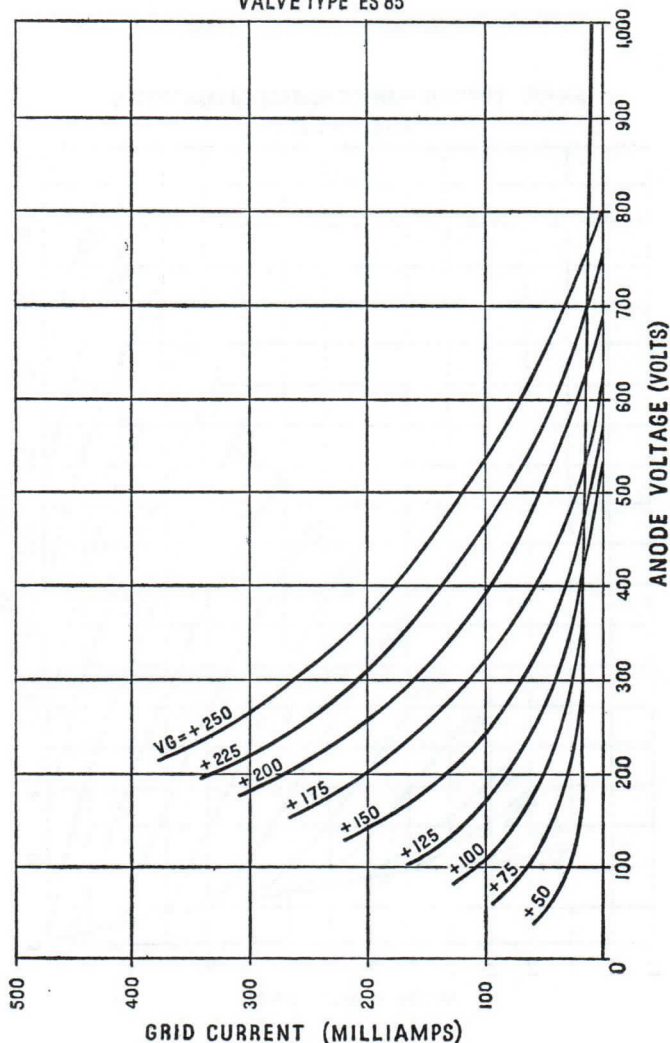
BASE—Jumbo

NOTE: This valve should be mounted so that its filament is in vertical plane.

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GRID CURRENT - ANODE VOLTAGE CHARACTERISTIC
VALVE TYPE ES85



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RADIATION COOLED TRIODE

ANODE CURRENT - ANODE VOLTAGE CHARACTERISTIC
VALVE TYPE ES 85

