

ES833

RADIATION COOLED TRIODE

GENERAL

The ES.833 is a high mu triode particularly suitable for use as an R.F. Power Amplifier, Oscillator or Class B modulator.

The anode and grid connections are brought out at the top and are taken through metal to glass seals to heavy current terminals. As a result of this construction the valve is exceptionally efficient at higher radio frequencies and may be operated under class 'C' CW conditions at a maximum input of 1.8 kW at frequencies up to 30Mc/s, with forced air cooling. At reduced input rating it is possible to operate the valve as high as 75Mc/s.

RATING

Filament Voltage (volts)	V_f	10.0
Filament Current (ampe)	I_f	10.0
Maximum Anode Voltage (volts)	$V_a(\text{max})$	• 3,000
Maximum Anode Dissipation (watts)	$W_a(\text{max})$	• 300
Amplification Factor	μ	35
Maximum Operating Frequency at Full Rating		\$ 30 Mc/s

- The Maximum Anode Voltage may be increased to 4,000v, and the Anode dissipation to 400w providing the valve is forced-air cooled at a rate of 40 cu.ft/min., on top of bulb between anode and grid seals, directed through a 2" nozzle.

- \$ At higher frequencies the maximum permissible anode voltages and inputs must be reduced.

INTER-ELECTRODE CAPACITANCES

Anode/Grid (μpF)	C_{a-g1}	6.3
Anode/Filament (μpF)	C_{a-f}	6.5
Grid/Filament (μpF)	$G1-f$	12.3

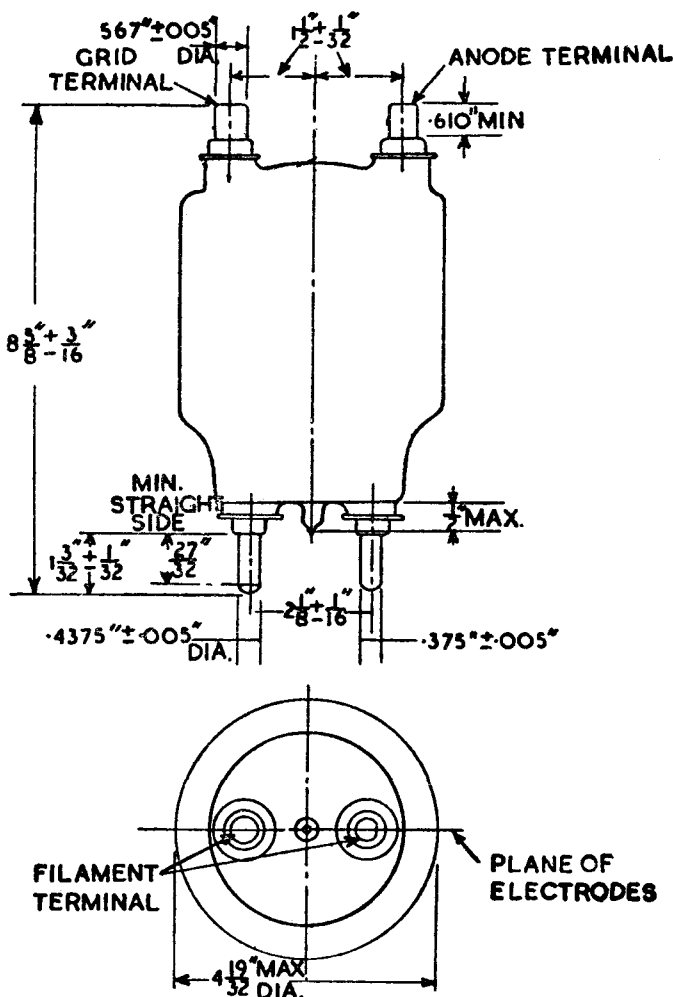
DIMENSIONS

Maximum Overall Length	8.812 ins	: 224 mm
Maximum Diameter	4.594 ins	: 116 mm
Approximate Nett Weight (lbs)		1
Approximate Packed Weight (lbs)		3½

MOUNTING POSITION - Vertical

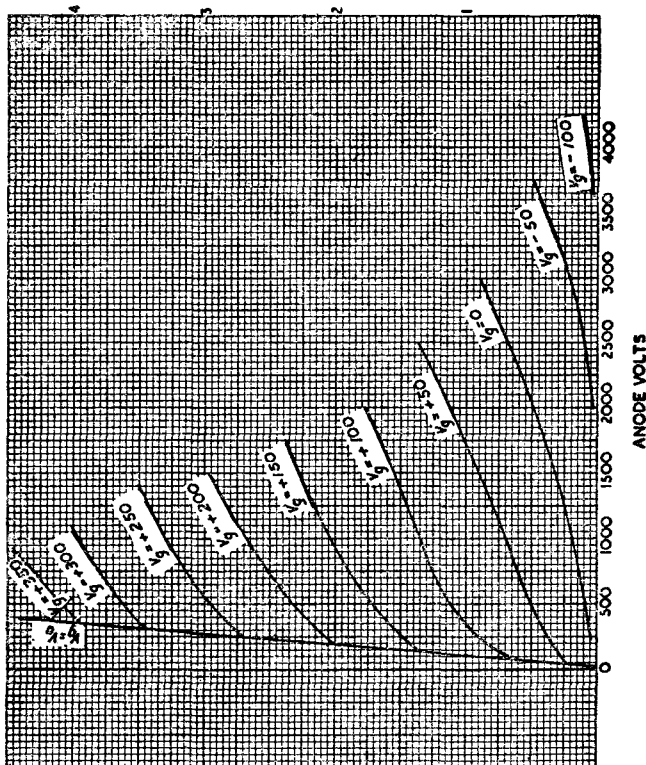
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ES833**RADIATION COOLED TRIODE****AVERAGE CHARACTERISTIC CURVES**

ANODE CURRENT IN AMPS



ES833**RADIATION COOLED TRIODE**AVERAGE CHARACTERISTIC CURVES: I_g/V_a 