



# Triode Type ACT22

UHF AMPLIFIER AND OSCILLATOR

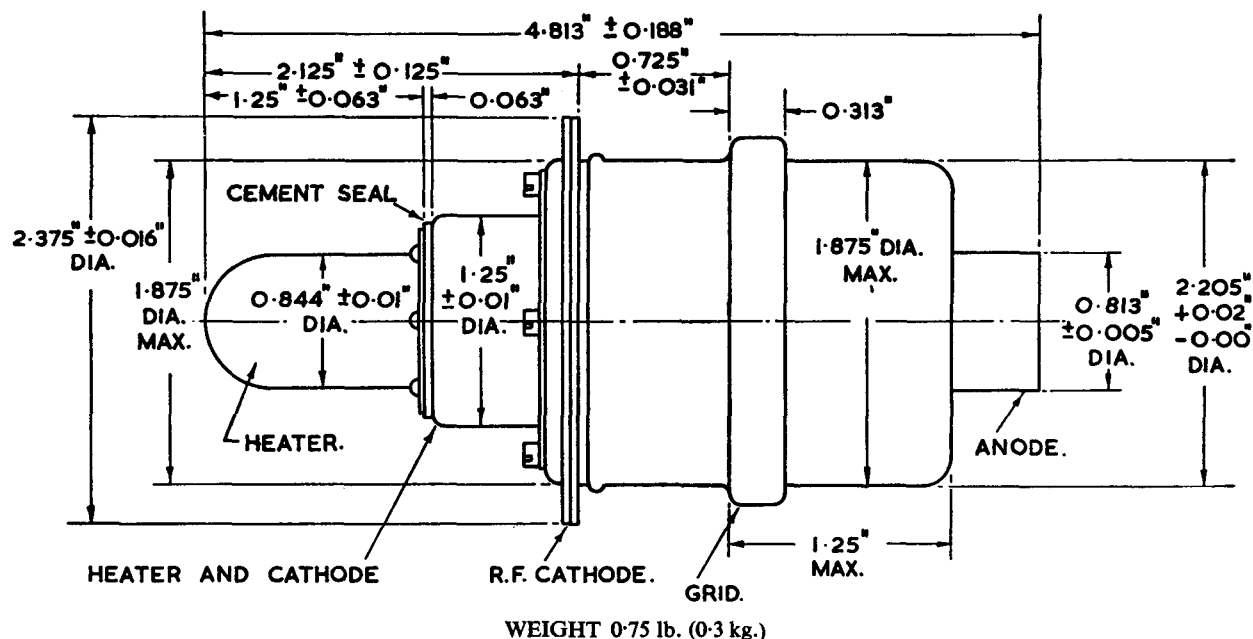
**General.** A forced-air-cooled disc-seal transmitting triode fitted with an indirectly-heated oxide-coated cathode. The valve is suitable for use as an amplifier or oscillator in co-axial line circuits at frequencies up to 1,000 Mc/s, and also for pulse operation.

**Cooling.** The anode requires cooling by air blast. The minimum volume of air necessary is 5 cu. ft. per minute at a pressure equal to a 2-in. head of water. The grid seal also requires to be cooled by air and the volume of air necessary is about 6 cu. ft. per minute at a pressure equal to a 1-in. head of water. All cooling supplies must be in operation before the application of any supply voltages, and must continue until after all voltages have been removed.

**Mounting.** The valve may be mounted in any position. Rigid connections may be made to one electrode only. It is essential that the valve holder is designed so that the valve can be inserted and withdrawn without imposing strain on the glass work or on the cemented seal.

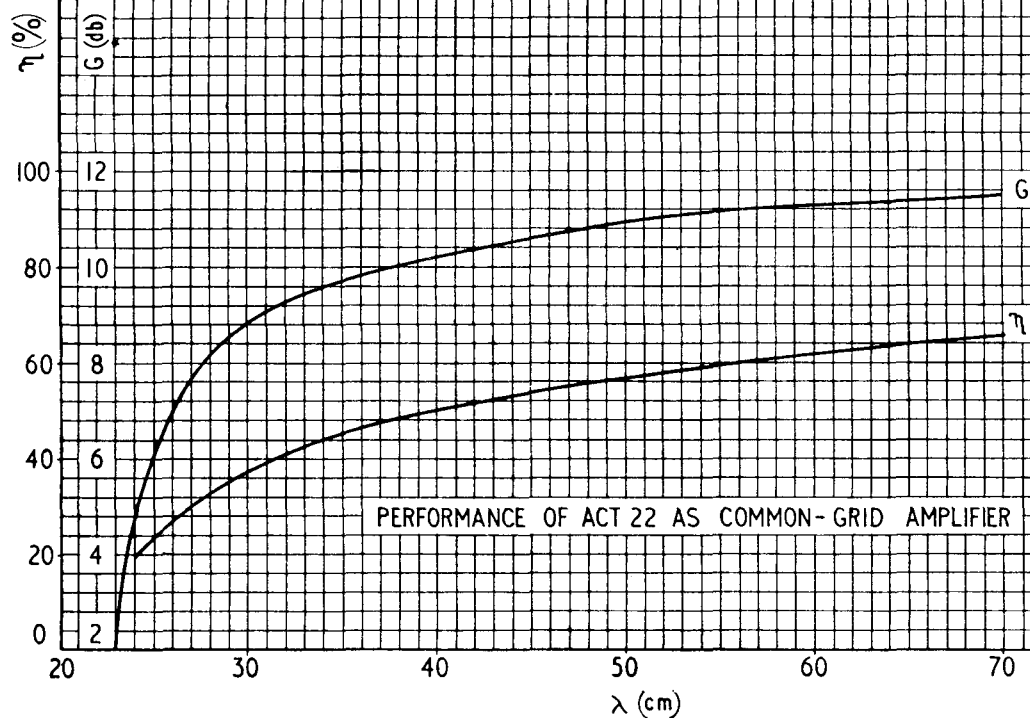
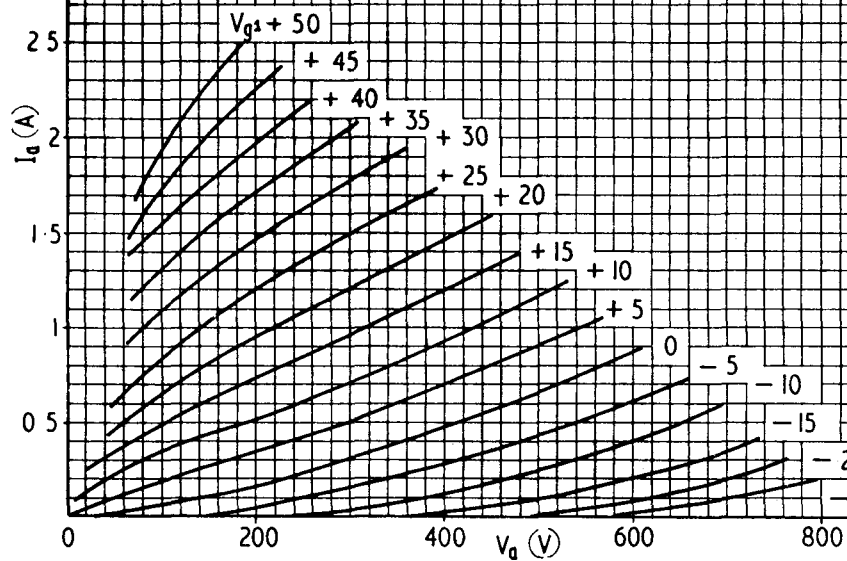
## APPROXIMATE DATA

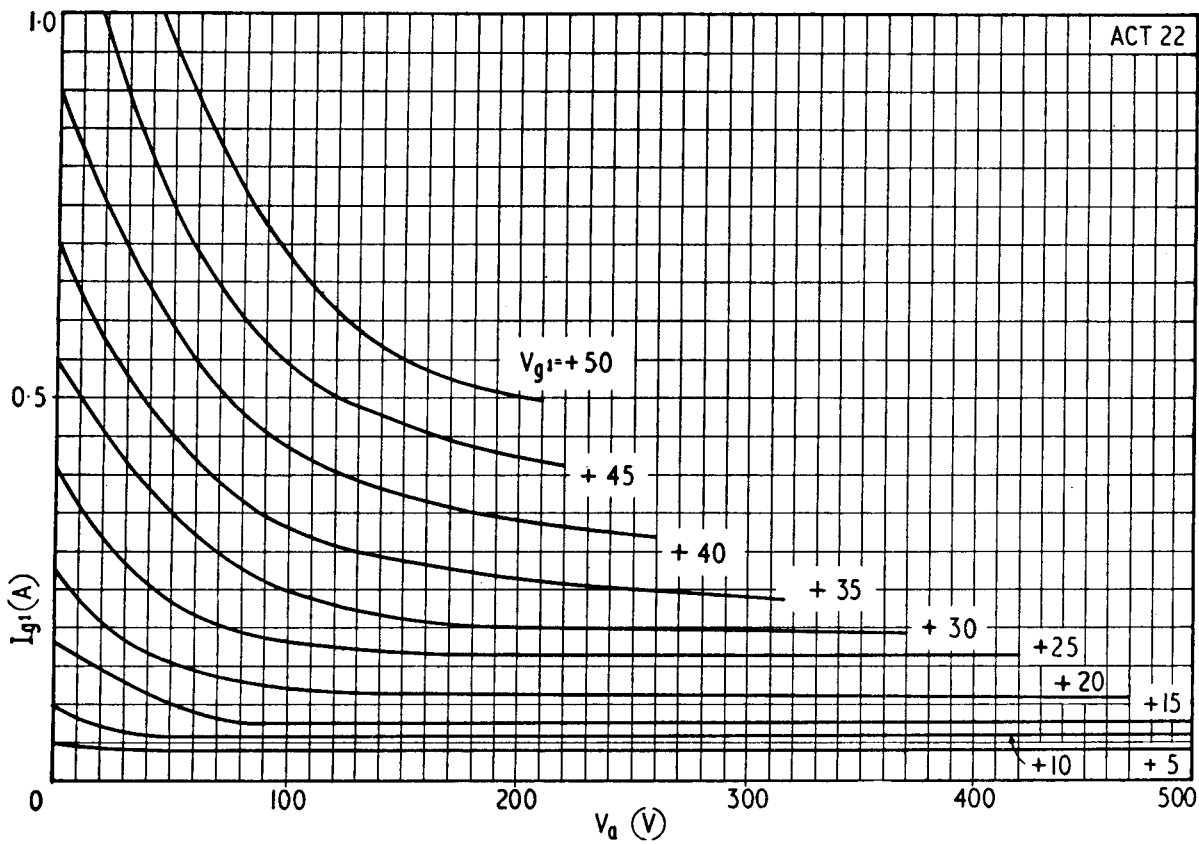
|                |     |    |                                               |         |
|----------------|-----|----|-----------------------------------------------|---------|
| $V_h$          | 6.3 | V  | $g_m$ { taken at $V_a$<br>500V, $I_a$ 100mA } | 20 mA/V |
| $I_h$          | 4   | A  |                                               |         |
| $V_a$ (max)    | 600 | V  | $g_m$ (taken at $\frac{1}{2} I_k$ (pk))       | 50 mA/V |
| $P_a$ (max)    | 75  | W  | $C_{a-gl}$                                    | 6.5 pF  |
| $I_k$ (pk)     | 1.5 | A  | $C_{a-k}$                                     | 0.3 pF  |
| $I_{gl}$ (max) | 60  | mA | $C_{gl-k}$                                    | 13.5 pF |
| $\mu$          | 22  |    |                                               |         |



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