



# Triode Type ACT 26

VHF AMPLIFIER

**General.** A forced-air-cooled transmitting triode fitted with a thoriated tungsten filament, for use in common grid circuits at frequencies up to 300 Mc/s.

**Cooling.** The anode requires cooling by air blast. The volume of air necessary is about 300 cu. ft. per minute at a pressure equal to a 4-in. head of water. The filament seals also require to be cooled by air, and the volume of air necessary is 10 cu. ft. per minute supplied through a nozzle. The air inlet temperature should not exceed 35°C (95°F). All cooling supplies must be started before the application of any supply voltages, and should continue for at least 30 sec. after the removal of all supply voltages.

**Filament Starting.** The cold resistance of the filament is 0.0064 Ω. The filament current must never exceed 150 A during the switching on period. During operation the filament must be run at constant current.

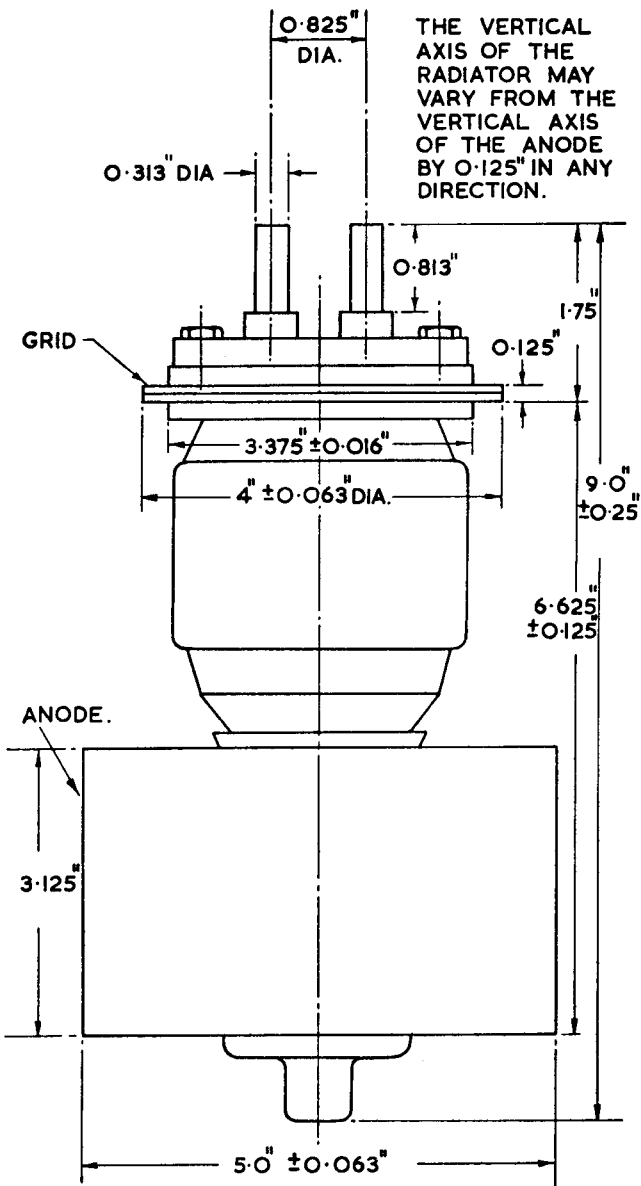
**Mounting.** The valve must be mounted with its axis vertical and the filament seals uppermost. Rigid connections must be made to one electrode only.

## APPROXIMATE DATA

$V_f$	6.5	V	
$I_f$	105	A	
$V_a$ (max)	5	kV	
$P_a$ (max)	5	kW	
$P_{gl}$ (max)	150	W	
$I_k$ (pk) (max)	15	A	
$\mu$	} taken at $V_a$ 2 kV and $\frac{1}{2} I_k$ (pk)	22	
$r_a$		490	Ω
$g_m$		45	mA/V
$C_{a-gl}$	18	pF	
$C_{a-k}$	0.5	pF	
$C_{gl-k}$	22	pF	

At frequencies above 100 Mc/s the permissible anode voltage must be reduced to the following percentages of the maximum value.

$f$ (Mc/s)	100	150	200	250	300
% $V_a$ (max)	100	80	70	60	50



WEIGHT 8.5 lb. (3.7 kg.)

DIMENSIONS MEAN

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