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.

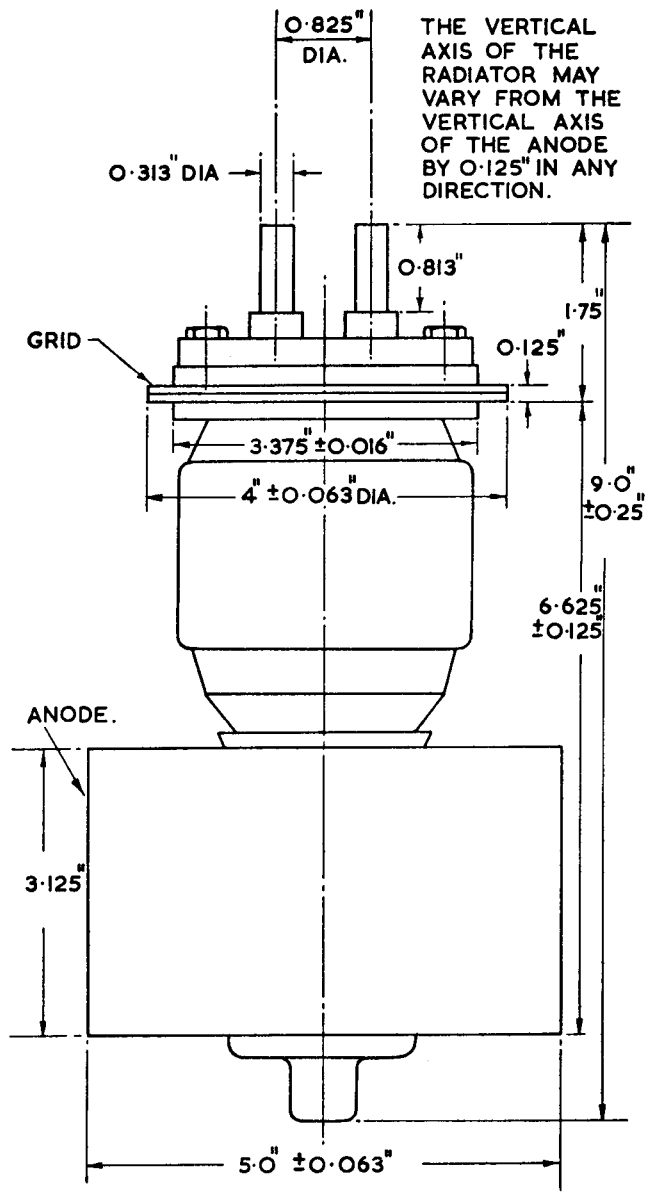
Mounting. The valve must be mounted with its axis vertical and the filament seals uppermost. Rigid connections must be made to one electrode only.

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
μ	taken at V_a 2 kV and $\frac{1}{2}\ I_{k\ (pk)}$	22	
r_a		490	Ω
g_m		45	mA/V
$c_{a\text{-}gl}$		18	pF
$c_{a\text{-}k}$		0·5	pF
$c_{gl\text{-}k}$		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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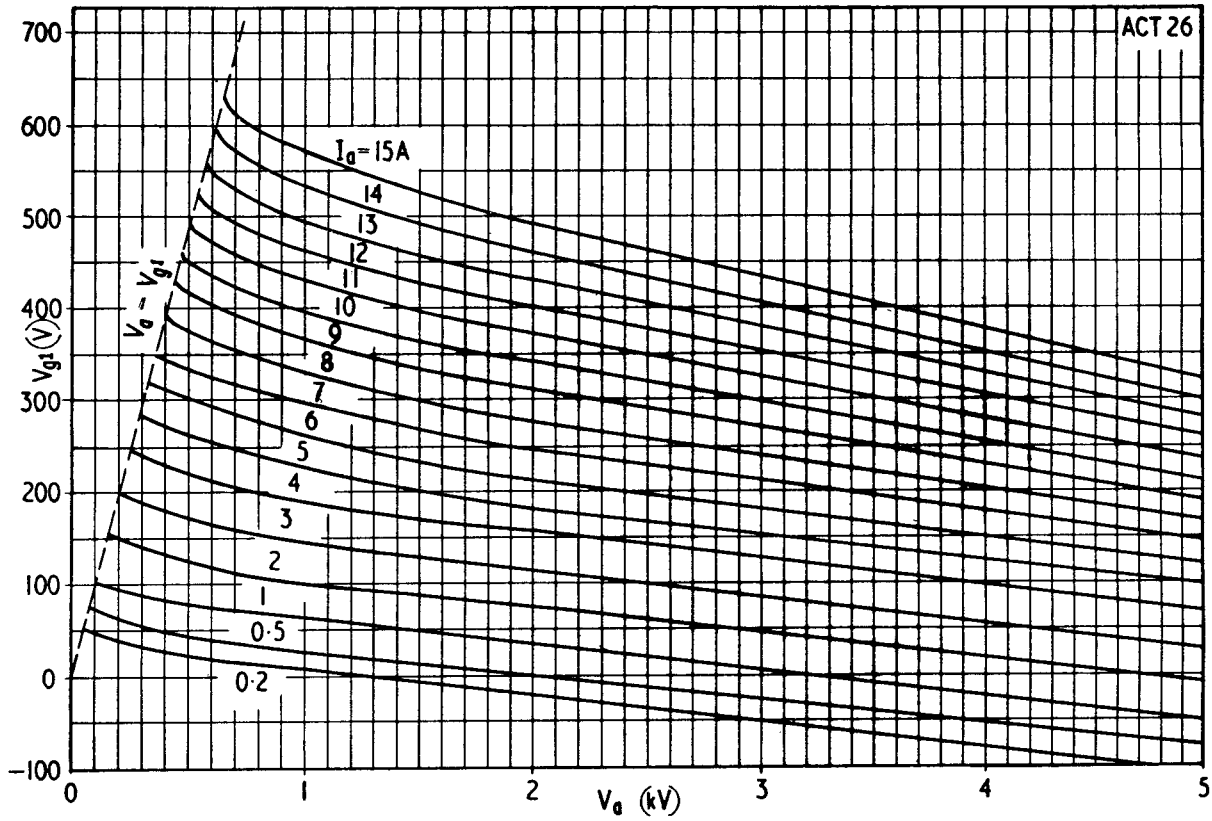

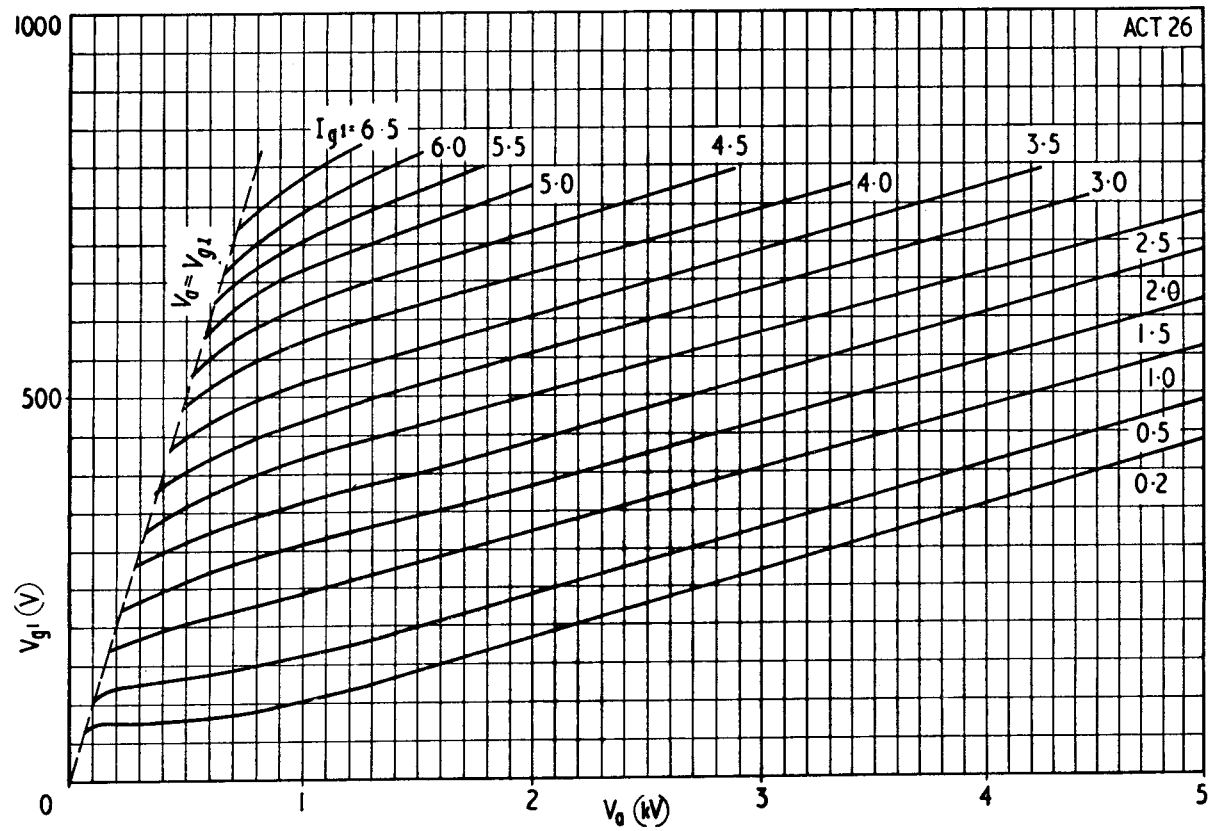

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