

## R.F. POWER TRIODE

# TX10-4000

Power triode in silica envelope, rated for a maximum anode dissipation of 4 KW. Primarily intended as self-excited oscillator in R.F. heating equipment but may also be used for communications purposes.

### PRELIMINARY DATA

#### FILAMENT

Pure tungsten suitable for A.C. or D.C. heating  
 Marked  $V_f$   $23.3 \pm 1.0$  V  
 $I_f$  (approx.) 47.0 A  
 (Marked volts give 6.0 amps emission at 90% saturation)

#### CAPACITANCES

$C_{g-f}$  13.5  $\mu\mu\text{F}$   
 $C_{a-f}$  4.0  $\mu\mu\text{F}$   
 $C_{a-g}$  21.0  $\mu\mu\text{F}$

#### CHARACTERISTICS

At  $V_a = 10$  kV  $I_a = 0.32$  A  
 $g_m$  4.5 mA/V  
 $r_a$  55  $\mu$   
 $r_a$  12 k $\Omega$

#### LIMITING VALUES

\* $V_a$  max. (at 7 Mc/s) 12 kV  
 \* $V_a$  max. (at 10 Mc/s) 10 kV  
 \* $V_a$  max. (at 20 Mc/s) 7 kV  
 $P_a$  max. 4.0 kW  
 $I_k$  max. 1.6 A  
 $I_g$  max. 350 mA  
 $V_g$  max. -700 V  
 $R_{g-f}$  max. 3 k $\Omega$   
 $f$  max. 20 Mc/s

#### TYPICAL OPERATING CONDITIONS

As Class "C" C.W. oscillator at  $f = 3.5$  Mc/s  
 $V_a$  12 kV  
 $V_g$  -500 V  
 $I_a$  1.1 A  
 $I_g$  0.2 A  
 $V_{drive}$  (pk) 1,100 V  
 $P_{drive}$  220 W  
 $P_{out}$  9.7 kW  
 $P_a$  3.5 kW  
 $\eta$  73.5 %

\*Figure quoted does not include ripple and H.T. regulation which should not exceed 25%.

#### WEIGHT

Valve only

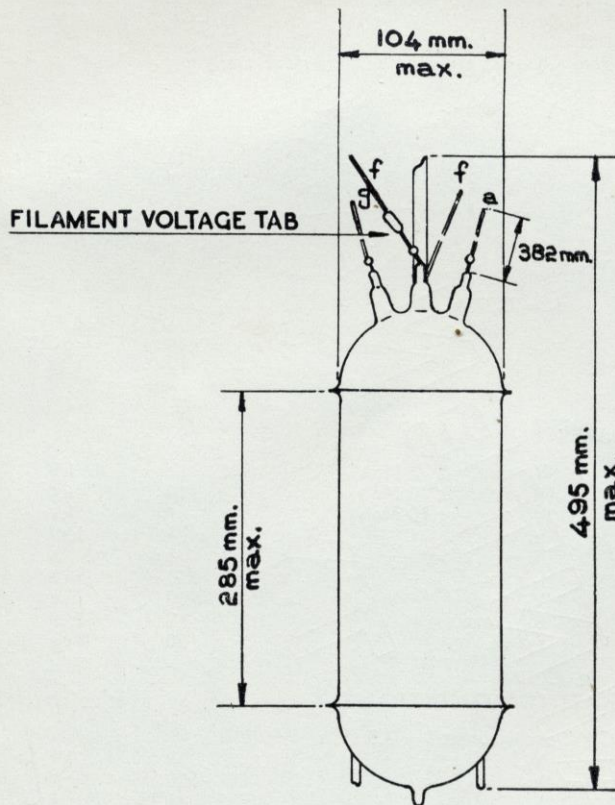
2 lb. 8 oz. (1.14 kg.)



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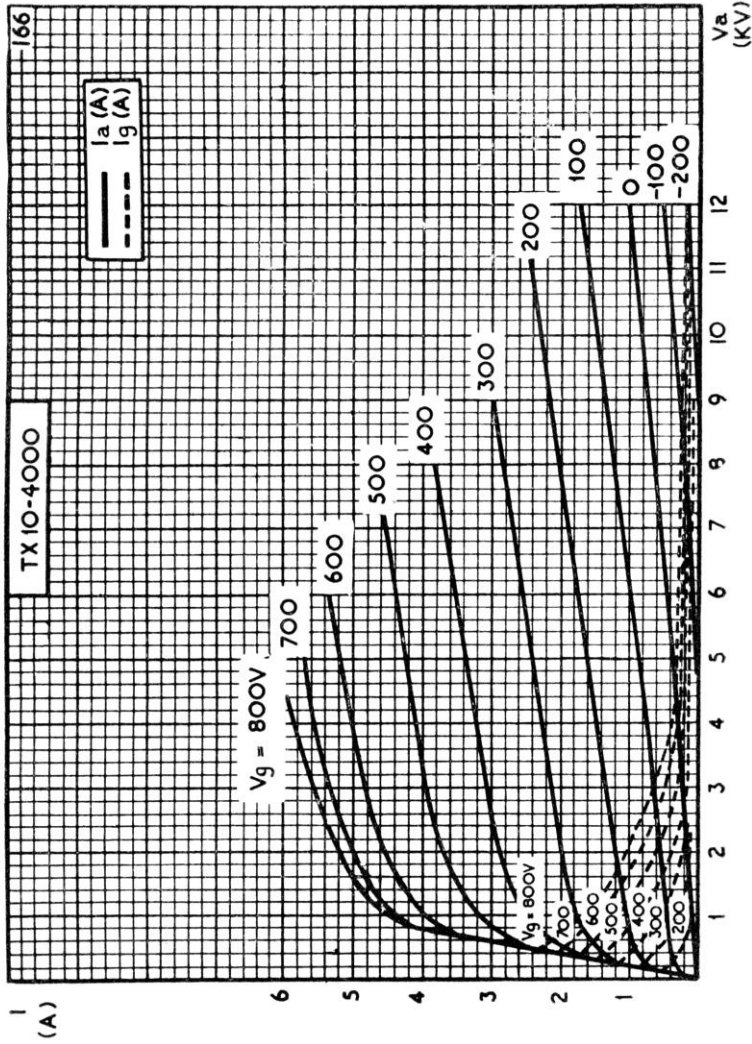


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ANODE CURRENT PLOTTED AGAINST ANODE VOLTS  
GRID CURRENT PLOTTED AGAINST ANODE VOLTS

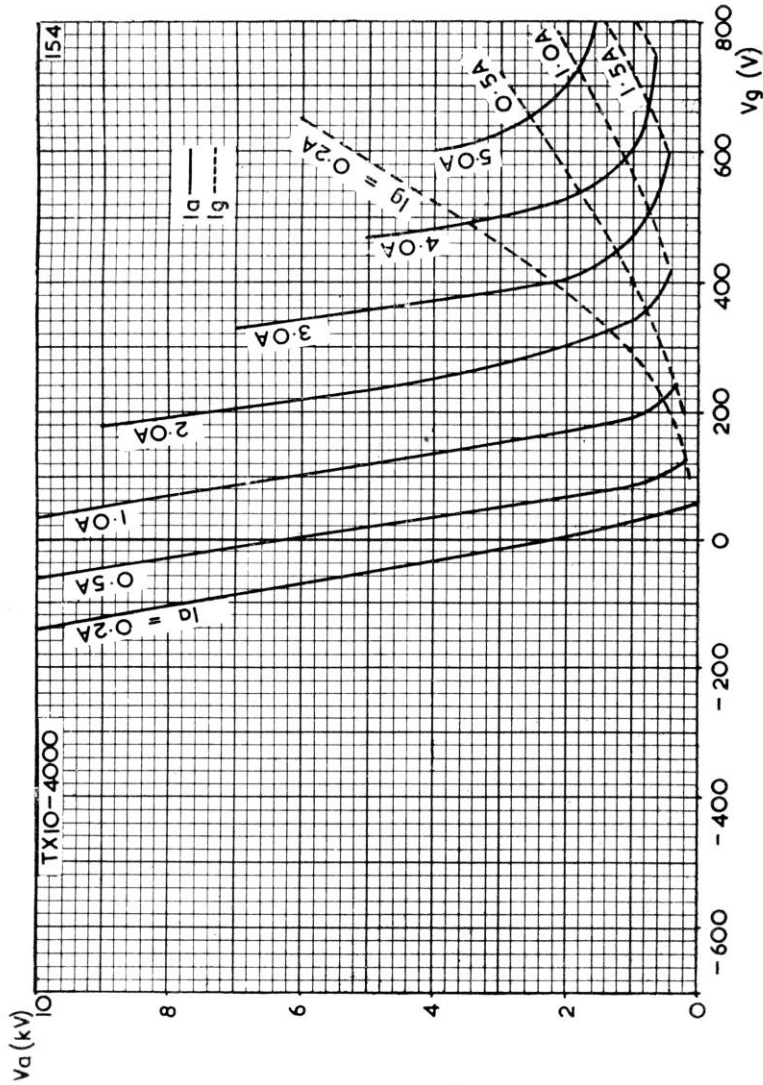


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CONSTANT CURRENT CURVES

