



# R.F. Suppressor Modulated Pentode

5C/450A

## CATHODE.

Thoriated tungsten filament

Voltage

10

V

Nominal current

12.5

A

Peak emission

7

A

## RATING.

Mutual conductance	Measured at	4.5	mA/V
Screen grid $\mu$	$\left\{ \begin{array}{l} V_a \text{ 2.5 kV } V_{g_2} \text{ 0.6 kV} \\ V_{g_3} \text{ 0V } V_{g_1} \text{ -90V} \end{array} \right\}$	5	

## INTER-ELECTRODE CAPACITIES.

Grid to anode	0.2	pF
Input	45	pF
Output	27	pF

## DIMENSIONS.

Maximum overall length	330	mm.
Maximum bulb diameter	108	mm.
Base—Special, see sketch		
Net weight	800	g.

## MAXIMUM RATINGS.

Maximum direct anode voltage	3	kV
Maximum direct anode current	0.7	A
Maximum anode dissipation	450	W
Maximum direct screen voltage	850	V
Maximum screen dissipation	100	W
Maximum frequency for above ratings	10	Mc/s.
Maximum anode voltage for frequency for 20 Mc/s.	2.25	kV

**NOTE.**—It is recommended that the valve be operated in a vertical position. When operated horizontally the plane of the filament should be vertical. Free circulation of air around the bulb is essential. When operated in a confined space circulation of air by means of a fan is recommended.

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## TYPICAL OPERATING CONDITIONS RADIO FREQUENCY.

**Class C Power Amplifier. Suppressor Grid Modulated.  
(Carrier conditions per valve for use with 100% modulation)**

Direct anode voltage	2.5	kV
Grid bias	-165	V
Direct anode current	0.3	A
Screen voltage	530	V
Screen resistor	2500	$\Omega$
Direct screen current	110	mA
Direct suppressor voltage	-90	V
Direct grid current *	19	mA approx.
Carrier output	300	W approx.

## Class C Power Amplifier or Oscillator Unmodulated

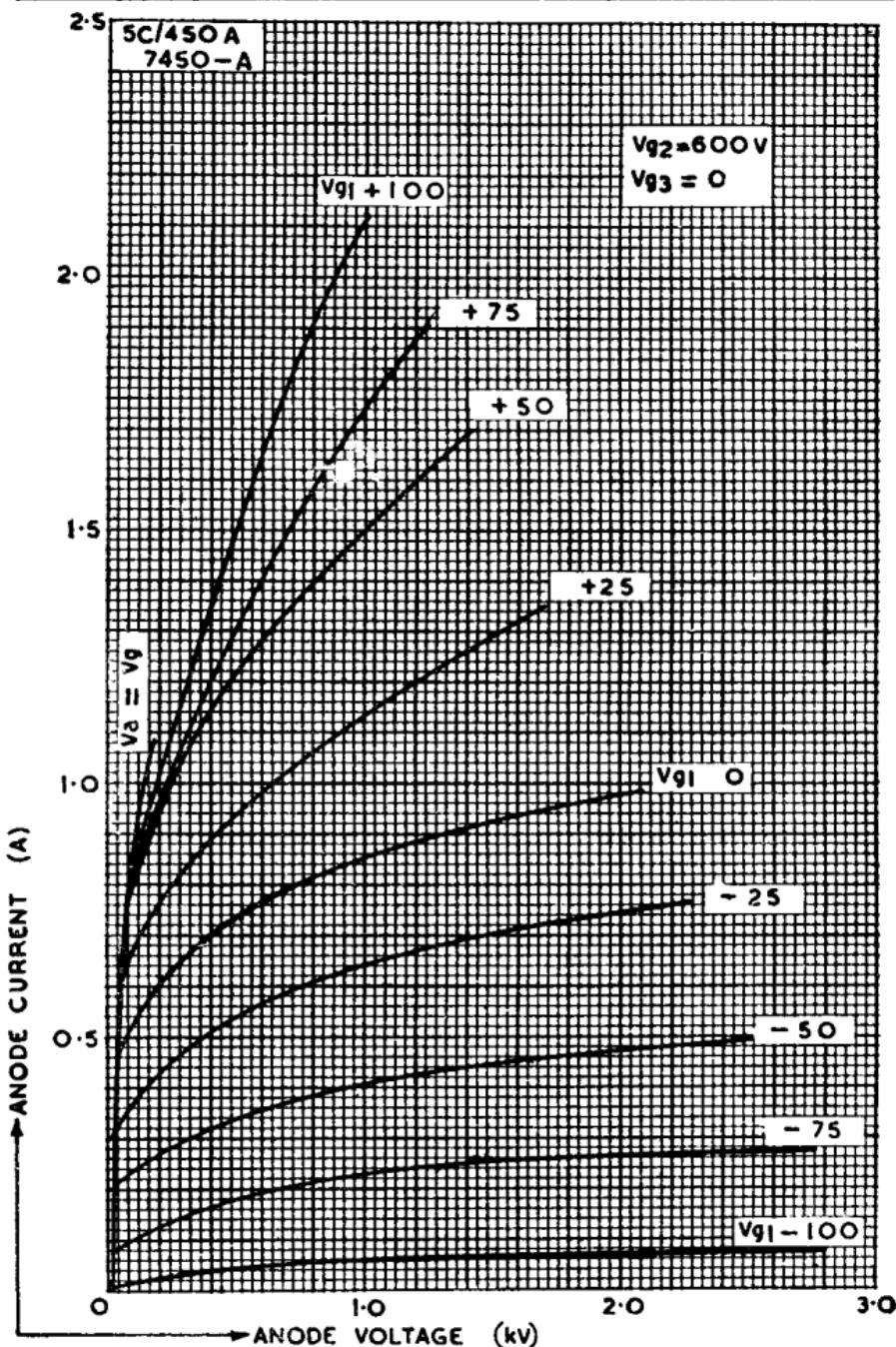
Direct anode voltage	2.5	kV
Grid bias	-165	V
Direct anode current	590	mA
Direct screen voltage	600	mA
Direct screen current	80	mA
Direct suppressor voltage	100	V
Direct grid current	*19	mA approx.
Power output	1	kW approx.

\* Subject to wide variation depending upon the impedance of the load circuit.



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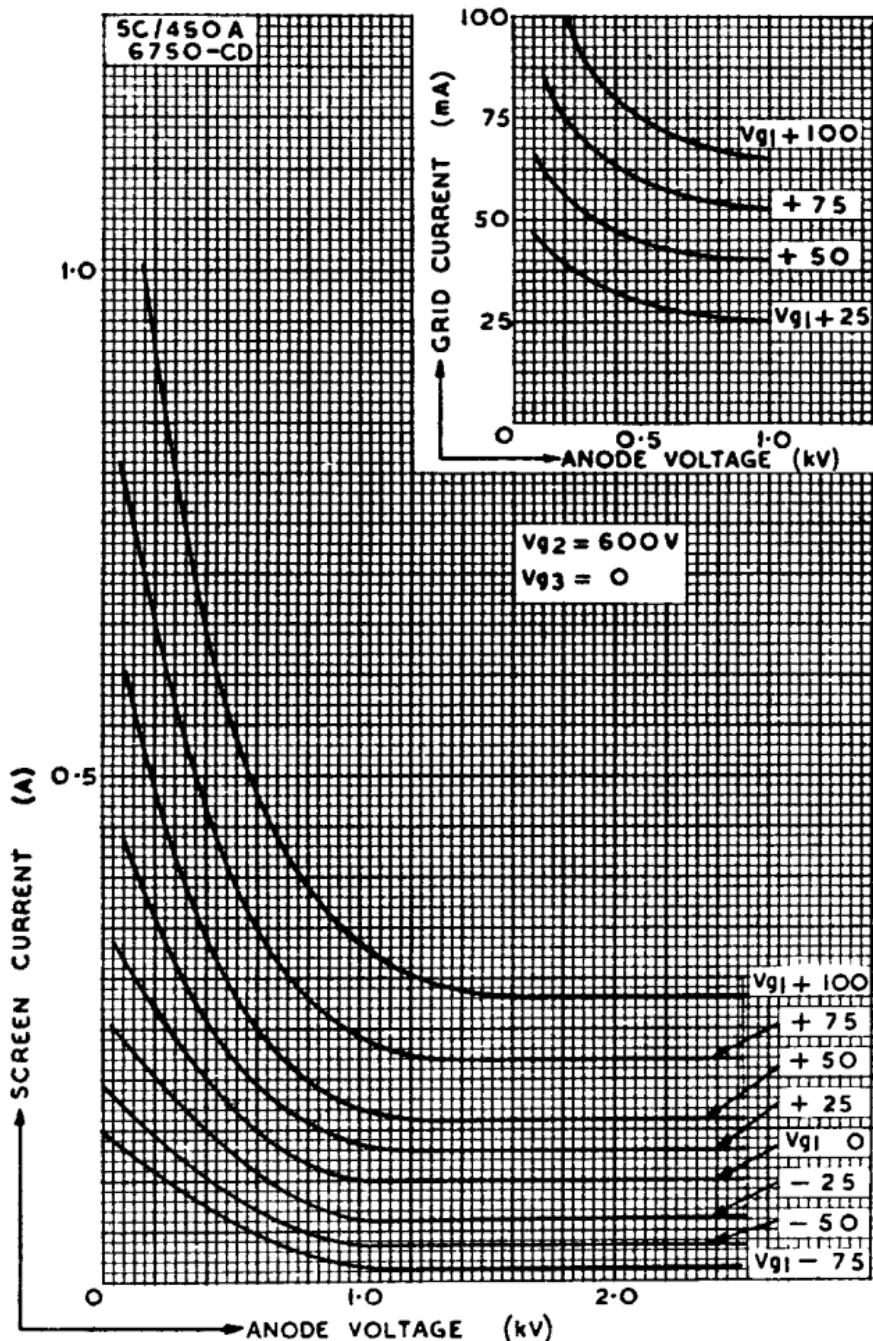
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