



Pentode

4069A

5C/101A
(4069A)

CATHODE.

Thoriated tungsten filament

Voltage	10	V
Nominal current	5.4	A
Peak emission	3	A

RATING.

Mutual conductance	$\left\{ \begin{array}{l} \text{Measured at } V_a \text{ 2 kV} \\ V_{g_2} \text{ 400V, } V_{g_1} \text{—20V} \end{array} \right\}$	5	mA/V
Screen grid μ	$V_a = V_{g_2} = 400\text{V. } V_{g_1} \text{—20}$	11	

INTER-ELECTRODE CAPACITIES.

Grid to anode	0.1	pF
Input capacity	18	pF
Output capacity	13.0	pF

DIMENSIONS.

Maximum overall length	249	mm.
Maximum bulb diameter	66	mm.
Base : Large American 5 pin		
Net weight	300	g.

MAXIMUM RATINGS.

Maximum direct anode voltage	2	kV
Maximum direct screen voltage	400	V
Maximum direct suppressor voltage	45	V
Maximum direct anode dissipation	100	W
Maximum direct screen dissipation	35	W
Maximum direct control grid current	25	mA
Maximum RF control grid current	8	A
Maximum frequency at above ratings	30	Mc/s



TYPICAL OPERATING CONDITIONS.

RADIO FREQUENCY.

Class C Power Amplifier. Control grid modulated.

(Carrier conditions per valve for use with 100% modulation).

Direct anode voltage	2	kV
Grid bias	—140	V
Direct anode current	85	mA
Direct screen voltage	400	V
Direct screen current	20	mA
Direct suppressor voltage	0	V
Peak RF grid voltage	170	V
*Direct grid current	3	mA approx.
Power output	70	W approx.

Class C Power Amplifier. Suppressor modulated.

(Carrier conditions per valve for use with 100% modulation).

Direct anode voltage	2	kV
Grid bias	—100	V
Direct anode current	80	mA
Direct screen voltage	400	V
Direct screen current	85	mA
Direct suppressor voltage	—50	V
Peak RF grid voltage	180	V
*Direct grid current	11	mA approx.
Power output	60	W approx.

Class C Power Amplifier or Oscillator, unmodulated.

Direct anode voltage	2	kV
Grid bias	—100	V
Direct anode current	120	mA
Direct screen voltage	400	V
Direct screen current	75	mA
Direct suppressor voltage	0	V
Peak RF grid voltage	180	V
*Direct grid current	10	mA approx.
Power output	160	W approx.

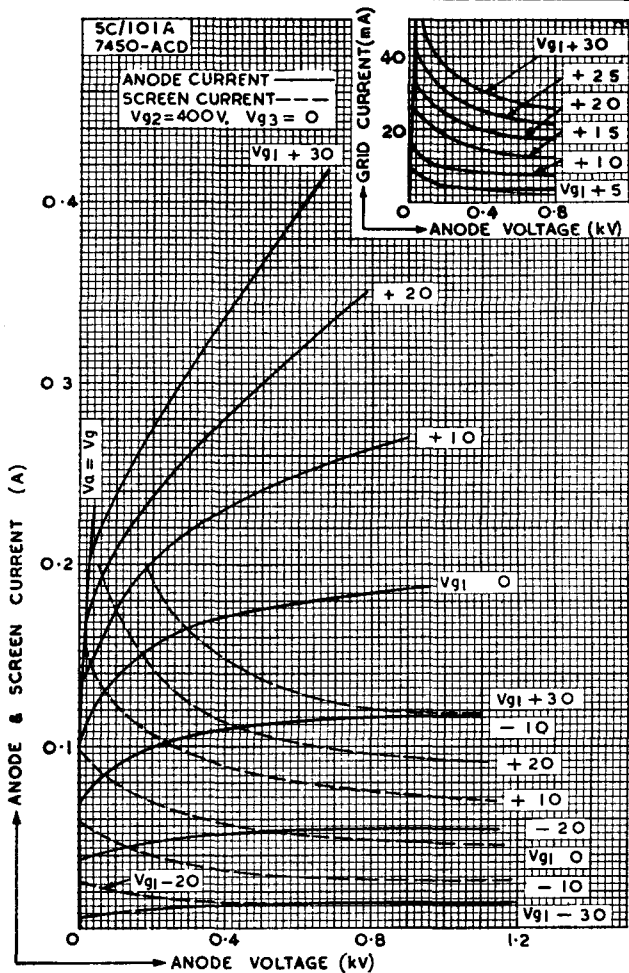
* Subject to wide variation depending upon the impedance of the load circuit.



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