



# Pentode

5C/101A  
(4069A)

4069A

## CATHODE.

Thoriated tungsten filament

Voltage	10	V
Nominal current	5.4	A
Peak emission	3	A

## RATING.

Mutual conductance	{ Measured at $V_a$ 2 kV $V_{g_2}$ 400V, $V_{g_1}$ -20V }	5	mA/V
Screen grid $\mu$	$V_a = V_{g_2} = 400V$ . $V_{g_1} - 20$	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.

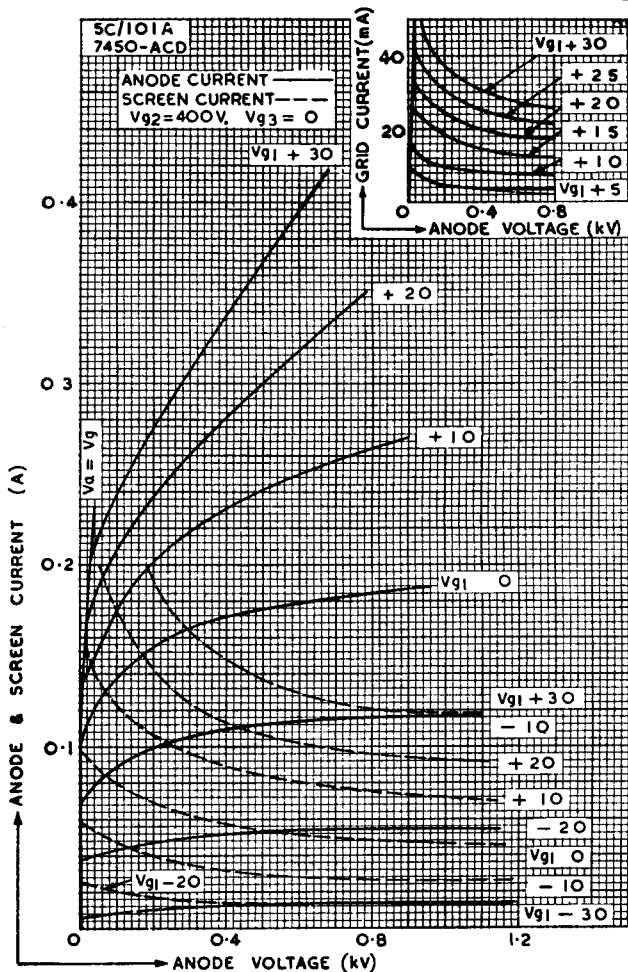
#### Class C Power Amplifier or Oscillator, unmodulated.

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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