



ELECTRONIC TUBE REFERENCE

4305A

Power - Tetrode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TETRODE

Standard Valves directly heated tetrode with published operating data. Its power-capable construction is intended for output-stage service rather than ordinary voltage amplification.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	4
NOMINAL HEATER	10 V / 3.1 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Tetrode	
PLATE RESISTANCE	40000 Ω
TRANSCONDUCTANCE	0.004 S
MAXIMUM PLATE VOLTAGE	1000 V
MAXIMUM SCREEN VOLTAGE	200 V
MAXIMUM PLATE DISSIPATION	60 W
MAXIMUM SCREEN DISSIPATION	6 W
MAXIMUM CATHODE CURRENT	125 mA
Ratings and characteristics extracted from 4305A.pdf.	

The 4305A is a tetrode described in the Standard Valves datasheet, using a directly heated filament cathode and published operating data.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1937 Standard Valves

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1937 STANDARD VALVES

Section 1 · Tetrode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Total emission	1 A	Published datasheet value
Grid-anode capacitance	0.14 pF	Published datasheet value
Input capacitance	105 pF	Published datasheet value
Output capacitance	5.4 pF	Published datasheet value

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum frequency for above ratings	50 MHz	Published datasheet value
Maximum direct grid current	40 mA	Published datasheet value

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1946 Standard Telephone and Cables

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1946 STANDARD TELEPHONE AND CABLES

Section 1 · Tetrode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament voltage	10 volts	—
Nominal filament current	3.1 amps	—
Impedance	40000 ohms	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Mutual conductance	0.004 A/V	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
at $V_p =$	1000 volts	—
Maximum direct anode voltage	1000 volts	—
Maximum direct anode current	0.125 amps	—
Maximum anode dissipation	60 watts	—
Maximum screen-grid voltage	200 volts	—
Maximum screen-grid dissipation	6 watts	—
Maximum direct grid current	0.04 amps	—
Maximum anode voltage for frequency ϕ	100 Mc	—
Direct anode voltage 1,000 750 800 { 500 1,000	750 volts	—
-270	-200 volts	—
Direct screen-grid voltage; 200 150 200 200 200	200 volts	—
Direct anode current 90 120 125 125 125	125 mA	—
Anode dissipation 60 60 30 [30 40	29 watts	—
Carrier output 30 30 70 i 42 85	65 watts	—
These curves are taken at :— $V_g =$	10 volts	—
These curves are taken at :— V_g	10 volts	—
These curves are taken at :— $V_f =$	10 volts	—

TUBE TINKER

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and their source documents.

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