



ELECTRONIC TUBE REFERENCE

4308B

Power - Triode (over 1000V 100W) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Directly heated transmitting power triode intended for RF amplifier, oscillator, or modulator service. Manufacturer operating data emphasize radio-frequency power generation, substantial plate loading, and professional transmitter applications.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	4
NOMINAL HEATER	14 V / 6 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
PLATE RESISTANCE	1070 Ω
TRANSCONDUCTANCE	0.0075 S
AMPLIFICATION FACTOR	8
MAXIMUM PLATE VOLTAGE	2250 V
MAXIMUM PLATE DISSIPATION	250 W
MAXIMUM CATHODE CURRENT	325 mA
Ratings and characteristics extracted from 4308B.pdf.	

Triode.



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 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Total emission	4 A	—
Grid-anode capacitance	17.4 pF	—
Grid-filament capacitance	13.6 pF	—
Anode-filament capacitance	9.3 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum direct anode current	325 mA	—
Maximum direct grid current	75 mA	—
Maximum frequency for full ratings	15 MHz	—
Anode voltage at 45 MHz	750 V	45MHz



SOURCE OPERATING CONDITIONS

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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 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Constants	1 A	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament voltage	14 volts	—
Nominal filament curren	6 amps	—
Total emission	4 amps	—
Impedance	1070 ohms	—
Mutual conductance	7.5 mA	—
at Vp =	1500 volts	—
Maximum direct anode voltage	2250 volts	—
Maximum direct anode curren	325 mA	—
Maximum direct grid curren	75 mA	—
Maximum anode dissipation	250 watts	—
Maximum frequency for above ratings	-5 Mc	—
Maximum anode voltage for frequency o	4.5 Mc	—
Direct anode voltage 1,500	1000 volts	—
Grid bias -155	-380 volts	—
Direct anode current 135	210 mA	—
Load impedance 13,000	3000 ohms	—
Undistorted output 50	35 watts	—
Direct anode voltage 1,750	1500 volts	—
Grid bias -215	-180 volts	—
Direct anode current per valve—Zero signal 30	25 mA	—
Maximum signal 300	300 mA	—
Anode dissipation 240	210 watts	—
Load resistance—anode to anode 5,200	4280 watts	—
Power output—2 valves 575	475 watts	—
Recommended power for driving stage 35	35 watts	—
Direct anode voltage 1,750 1,500 1,250 1,000 1,750	1500 volts	—
Direct anode current 215 250 300 300 300	300 mA	—
-460	-400 volts	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode dissipation 250 250 125 100 175	150 watts	—
Carrier output 125 125 250 200 350	300 watts	—

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes,
and their source documents.

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