



ELECTRONIC TUBE REFERENCE

4304BB

Power - Triode 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	7.5 V / 3.25 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
PLATE RESISTANCE	5500 Ω
TRANSCONDUCTANCE	0.002 S
AMPLIFICATION FACTOR	11
MAXIMUM PLATE VOLTAGE	1250 V
MAXIMUM PLATE DISSIPATION	50 W
MAXIMUM CATHODE CURRENT	100 mA
Ratings and characteristics extracted from 4304B.pdf.	

The 4304BB is a triode 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 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Total emission	1 A	Published datasheet value
Grid-anode capacitance	25 pF	Published datasheet value
Anode-filament capacitance	7 pF	Published datasheet value
Grid-filament capacitance	20 pF	Published datasheet value

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum frequency for above ratings	100 MHz	Published datasheet value



SOURCE OPERATING CONDITIONS

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
Filament voltage	7.5 volts	—
Nominal filament current	3.25 amps	—
Impedance	5500 ohms	—
Maximum direct anode voltage	1250 volts	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum direct anode current	0.1 amps	—
Maximum anode dissipation	50 watts	—
Maximum direct grid current	0.025 amps	—
Maximum frequency for above ratings	100 Mc	—
Maximum anode voltage for frequency o	300 Mc	—
Direct anode voltage 1,250 1,000 1,000 750 1,250	1000 volts	—
Carrier output 25 20 65 50 85	65 watts	—
Anode dissipation 50 40 35 25 40	35 watts	—
Class B Amplifier 1,250 1,125 1,000 875	750 volts	—
Amplifier—unmodulated 1,250 1,125 1,000 875	750 volts	—
modulated 1,000 900 800 700	600 volts	—
Anode voltage 1,250 1,000	750 volts	—
Power output 60 35	13 watts	—
Limit of oscillation, approximately	400 Mc	—

TUBE TINKER

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

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