



ELECTRONIC TUBE REFERENCE

7203

Power - Beam (NOT sweep) (over 1000V 100W) electronic tube

CONSOLIDATED TECHNICAL
DATA

1 SECTION
CONSTRUCTION
BEAMPOWER

Forced-air-cooled ceramic-metal radial-beam tetrode for audio power, linear RF, and Class-C RF amplifier or oscillator service through 500 MHz.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6 V / 2.6 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Beam Power	
AMPLIFICATION FACTOR	5
MAXIMUM PLATE VOLTAGE	2000 V
MAXIMUM SCREEN VOLTAGE	400 V
MAXIMUM PLATE DISSIPATION	250 W
MAXIMUM SCREEN DISSIPATION	12 W
MAXIMUM GRID DISSIPATION	2 W
MAXIMUM CATHODE CURRENT	250 mA
<i>Promoted fields populated from published ratings/characteristics; additional published values retained in TUBE_SECTION_PARAMETER.</i>	

Forced-air-cooled ceramic-metal beam-power tetrode for AF power, linear RF, and Class-C RF amplifier/oscillator service through 500 MHz.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1940 RCA

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

1940 RCA

Section 1 · Beam Power

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater or filament voltage	6 V	Published nominal value
Heater or filament current	2.6 A	Published nominal/aggregate value

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate dissipation	250 W	Published maximum rating
Useful RF power output	250 W	Class-C service
Maximum frequency	500 MHz	Published



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1962 Eimac

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

1962 EIMAC

Section 1 · Beam Power

CAPACITANCE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input Capacitance	15.7 pF	—
Output Capacitance	4.5 pF	—
Grounded Cathode Feedback Capacitance	0.04 pF	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grounded Grid Feedback Capacitance	0.01 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency of Maximum Rating CW	500 MHz	—
Maximum DC Plate Current	250 mA	—
Typical Linear Plate Voltage	2000 V	ClassAB1
Typical Linear Plate Output Power	300 W	ClassAB1



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1971 RCA HB3 Binder 6 of 7

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

1971 RCA HB3 BINDER 6 OF 7

Section 1 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum DC Plate Voltage	2000 V	Forced-air-cooled RF service
Maximum DC Screen Voltage	400 V	Forced-air-cooled RF service
Plate Dissipation	250 W	Forced-air-cooled RF service
Screen Input	12 W	Forced-air-cooled RF service
Typical DC Plate Voltage	2000 V	Forced-air-cooled RF service
Typical DC Screen Voltage	350 V	Forced-air-cooled RF service
Useful Power Output	225 W	Forced-air-cooled RF service

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Mu Factor, Screen to Control Grid	5	Forced-air-cooled RF service
Grid-No.1 to Plate Capacitance	0.03 pF	Forced-air-cooled RF service

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-No.1 to Cathode/Screen/Heater Capacitance	16 pF	Forced-air-cooled RF service
Plate to Cathode/Screen/Heater Capacitance	4.4 pF	Forced-air-cooled RF service