



ELECTRONIC TUBE REFERENCE

7204

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

CONSOLIDATED TECHNICAL
DATA

1 SECTION
CONSTRUCTION
BEAMPOWER

26.5-volt-heater variant of the forced-air-cooled 7203/4CX250B radial-beam transmitting tetrode for high-frequency RF power service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	26.5 V / 580 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Beam Power	
MAXIMUM PLATE VOLTAGE	2000 V
MAXIMUM SCREEN VOLTAGE	400 V
MAXIMUM PLATE DISSIPATION	250 W
MAXIMUM SCREEN DISSIPATION	12 W
MAXIMUM CATHODE CURRENT	250 mA
<i>forced-air-cooled beam-power tube (alias of 4CX250F)</i>	

Printed 26.5-V-heater variant of the 7203/4CX250B forced-air-cooled ceramic-metal beam-power tetrode.



SOURCE OPERATING CONDITIONS

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	26.5 V	Published nominal value
Heater or filament current	580 mA	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](#)

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

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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

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
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	0.06 pF	Forced-air-cooled RF service
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