



ELECTRONIC TUBE REFERENCE

7213

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

CONSOLIDATED TECHNICAL
DATA

1 SECTION
CONSTRUCTION
BEAMPOWER

Forced-air-cooled ceramic-metal beam-power transmitting tube for high-power linear and Class-C RF amplification at frequencies extending to approximately 1.2 GHz.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	5.5 V / 17.5 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Beam Power	
MAXIMUM PLATE VOLTAGE	2500 V
MAXIMUM SCREEN VOLTAGE	1000 V
MAXIMUM PLATE DISSIPATION	500 W
MAXIMUM CATHODE CURRENT	1 A
<i>Published ratings/characteristics promoted from supplied datasheet.</i>	

Forced-air-cooled ceramic-metal beam-power tube for high-power linear and Class-C RF amplification at frequencies through approximately 1.2 GHz.



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	5.5 V	Published nominal value
Heater or filament current	17.5 A	Published nominal/aggregate value
Maximum frequency	1215 MHz	Full ratings

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate dissipation	500 W	Published maximum rating
Maximum CW input	2500 W	Published
Useful power output	1250 W	Single-sideband service



SOURCE OPERATING CONDITIONS

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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	2500 V	CW RF power service
Maximum DC Screen Voltage	1000 V	CW RF power service
Plate Dissipation	1500 W	CW RF power service
Typical DC Plate Voltage	2500 V	CW RF power service

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum-Signal Power Output	1250 W	CW RF power service

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Mu Factor, Screen to Control Grid	17	CW RF power service
Grid-No.1 to Plate Capacitance	0.17 pF	CW RF power service
Grid-No.1 to Cathode/Heater Capacitance	42 pF	CW RF power service
Grid-No.2 to Plate Capacitance	16 pF	CW RF power service

TUBE TINKER

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