

ELECTRONIC TUBE REFERENCE

8072

Power - Beam (NOT sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
BEAMPOWER

Conduction-cooled coaxial beam-power tube for low-voltage mobile RF amplifier, oscillator, and regulator service, with operation extending to approximately 500 MHz.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	11
NOMINAL HEATER	13.5 V / 1.3 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Beam Power	
MAXIMUM PLATE VOLTAGE	2200 V
MAXIMUM SCREEN VOLTAGE	400 V
MAXIMUM PLATE DISSIPATION	100 W
MAXIMUM SCREEN DISSIPATION	8 W
Electrical section extracted from supplied RCA data sheet.	

Conduction-cooled coaxial beam-power tube for low-voltage mobile RF amplifier, oscillator and regulator service to 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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Frequency	500 MHz	—
RFPowerOutput	105 W	175MHz



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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage nominal	13.5 V	WholeTube
Heater/filament current nominal	1.3 A	WholeTube
Grid No	1 pF	Published source row
Grid No (value 2)	16 pF	Published source row
Grid No	2 pF	Published source row
Grid No (value 2)	6.5 pF	Published source row
Grid No	2 pF	Published source row
Grid No (value 2)	3.2 pF	Published source row
Cathode to heater	3.4 pF	Published source row

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Published electrical value	250	Published source row
Published electrical value (value 2)	2	Published source row
Grid-No	2 ohm	Published source row
Grid-No (value 2)	10000 ohm	Published source row
is Inc re8	5	Published source row
tion; e.g., et	470 MHz	Published source row
tion; e.g., et (value 2)	12.5 MHz	Published source row
conditions, the average plate current may De as high as	450 mA	Published source row
techniques, maximum plate dissipation may De only about	100 W	Published source row
represents the app roximate gritl-No	1	Published source row
initial electron velocities antl contact-potential effects when grid No	1	Published source row
the peak current thro ugh the tube under surge conditions to	15	Published source row
Published electrical value	1 A	Published source row
Published electrical value (value 2)	1 A	Published source row
Published electrical value (value 3)	1.15 A	Published source row

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Voltage range (AC or DC)e	12 V	Published source row
Voltage range (AC or DC)e (value 2)	0 V	Published source row
Voltage range (AC or DC)e (value 3)	15 V	Published source row
Current (Approx.) at	13.5 V	Published source row
Current (Approx.) at (value 2)	1.3 V	Published source row
Minimum heating time	60 s	Published source row

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Mu-Factor, Grid No	2	Published source row
for plate volts =	250 V	Published source row
for plate volts = (value 2)	2 V	Published source row
DC PLATE VOLTAGE	2200 V	Published source row
DC GRID-No	2 V	Published source row
DC GRID-No (value 2)	400 V	Published source row
DC GRID-No	1 V	Published source row
DC GRID-No (value 2)	-100 V	Published source row
DC PLATE CURRENT AT PEAK OF ENVELOPE	450 mA	Published source row
DC GRID-No.1 CURRENT	100 mA	Published source row
PLATE DISSIPATION	100 W	Published source row
GRID-No	2 W	Published source row
GRID-No (value 2)	8 W	Published source row
DC Plate Voltage	700 V	Published source row
DC Grid-No	2 V	Published source row
DC Grid-No (value 2)	250 V	Published source row
DC Grid-No.1 Voltage9	-20 V	Published source row
Zero-Signal DC Plate Current	100 mA	Published source row
Effective RF Load Resistance	1420 ohm	Published source row
DC Grid-No	2	Published source row
Output-Circuit Efficiency (Approx.)	95	Published source row
Grid-No	2 ohm	Published source row
Grid-No (value 2)	10000 ohm	Published source row
DC PLATE VOLTAGE	2200 V	Published source row
DC GRID-No	2 V	Published source row
DC GRID-No (value 2)	400 V	Published source row
DC GRIP-No.1 VOLTAGE	-100 V	Published source row
DC PLATE CURRENT	300 mA	Published source row
DC GRID-No	1 mA	Published source row
DC GRID-No (value 2)	100 mA	Published source row
GRID-No	2 W	Published source row

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
GRID-No (value 2)	8 W	Published source row
PLATE DISSIPATION	100 W	Published source row
at frequency of	5	Published source row
at frequency of (value 2)	5	Published source row
at frequency of (value 3)	47	Published source row
DC Plate Voltage	500 V	Published source row
DC Plate Voltage (value 2)	700 V	Published source row
DC Plate Voltage (value 3)	500 V	Published source row
DC Plate Voltage (value 4)	700 V	Published source row
DC Plate Voltage (value 5)	700 V	Published source row
DC Grid-No	2 V	Published source row
DC Grid-No (value 2)	160 V	Published source row
DC Grid-No (value 3)	175 V	Published source row
DC Grid-No (value 4)	200 V	Published source row
DC Grid-No (value 5)	200 V	Published source row
DC Grid-No (value 6)	200 V	Published source row
DC Grid-No.l Voltage	-10 V	Published source row
DC Grid-No.l Voltage (value 2)	-10 V	Published source row
DC Grid-No.l Voltage (value 3)	-30 V	Published source row
DC Grid-No.l Voltage (value 4)	-30 V	Published source row
DC Grid-No.l Voltage (value 5)	-30 V	Published source row
DC Plate Current	300 mA	Published source row
DC Plate Current (value 2)	300 mA	Published source row
DC Plate Current (value 3)	300 mA	Published source row
DC Plate Current (value 4)	300 mA	Published source row
DC Plate Current (value 5)	300 mA	Published source row
DC Grid-No	2 mA	Published source row
DC Grid-No (value 2)	25 mA	Published source row
DC Grid-No (value 3)	25 mA	Published source row

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC Grid-No (value 4)	30 mA	Published source row
DC Grid-No (value 5)	20 mA	Published source row
DC Grid-No (value 6)	10 mA	Published source row
DC Grid-No.1 Current	50 mA	Published source row
DC Grid-No.1 Current (value 2)	50 mA	Published source row
DC Grid-No.1 Current (value 3)	40 mA	Published source row
DC Grid-No.1 Current (value 4)	40 mA	Published source row
DC Grid-No.1 Current (value 5)	20 mA	Published source row

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