



ELECTRONIC TUBE REFERENCE

6884

Power - Beam (NOT sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

BEAMPOWER

Forced-air-cooled ceramic-metal radial-beam tetrode for UHF power service, with useful output at frequencies reaching approximately 1.2 GHz.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	26.5 V / 530 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Beam Power	
AMPLIFICATION FACTOR	18
MAXIMUM PLATE VOLTAGE	1000 V
MAXIMUM SCREEN VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	115 W
MAXIMUM SCREEN DISSIPATION	4.5 W
MAXIMUM GRID DISSIPATION	1 W
<i>Promoted fields populated from published ratings/characteristics; additional published values retained in TUBE_SECTION_PARAMETER.</i>	

High-power beam-power tube for RF, pulse, or transmitting service. The supplied datasheet was reviewed for heater/filament data, maximum ratings, operating conditions, capacitances, pulse/RF data, and thermal limits.

SOURCE OPERATING CONDITIONS

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
Control Grid to Cathode Capacitance	13 pF	—
Control Grid to Screen Grid Capacitance	17.5 pF	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode Warmup Time Minimum	60 s	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency Full-Rated Power Input	1215 MHz	—
Maximum DC Plate Current	180 mA	—
Typical Useful Power Output	80 W	Frequency=400MHz
Typical Useful Power Output	40 W	Frequency=1200MHz

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

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
80 WATTS CW POWER OUTPUT – published value 1	80 W	CW
80 WATTS CW POWER OUTPUT – published value 2	40 W	CW
Voltage (AC or DC)	129.2 mA	Published datasheet value
Current at heater volts = 26 5 – published value 1	26	Published datasheet value
Current at heater volts = 26 5 – published value 2	5	Published datasheet value
Current at heater volts = 26 5 – published value 3	0	Published datasheet value
Current at heater volts = 26 5 – published value 4	54	Published datasheet value
Heater Current – published value 1	0.48	Published datasheet value
Heater Current – published value 2	0.6	Published datasheet value
Useful Power Output	80	Published datasheet value
Note 1: With 26.5 volts ac or do on heater – published value 1	1	Published datasheet value
Note 1: With 26.5 volts ac or do on heater – published value 2	26.5	Published datasheet value
ac or do on heater, do plate voltage of 1000 volts, do grid	1000	Published datasheet value
No.2 voltage of 300 volts, grid-No.1 resistor adjustable between	300	Published datasheet value

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Note 6: In a single-tube, grid-driven coaxial-cavity class C	6	ClassC; GridDrive

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
zero and 10,000 ohms, do plate current of 180 mA maximum, do + – published value 1	10 A	Published datasheet value
zero and 10,000 ohms, do plate current of 180 mA maximum, do + – published value 2	180 mA	Published datasheet value
grid-No.1 current of 30 mA maximum, and driver power output of ~	30 mA	Published datasheet value