

ELECTRONIC TUBE REFERENCE

4661

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

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
BEAMPOWER

Beam-power transmitting tube for professional RF power service, with published condition-specific operating, cooling, and power-output ratings.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	5.5 V / 17.3 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Beam Power	
MAXIMUM PLATE VOLTAGE	3500 V
MAXIMUM SCREEN VOLTAGE	1000 V
MAXIMUM PLATE DISSIPATION	1500 W
MAXIMUM SCREEN DISSIPATION	50 W
MAXIMUM CATHODE CURRENT	1.25 A
forced-air-cooled Cermolox beam-power tube	

The 4661 is a beam-power transmitting tube. The supplied datasheet was processed for heater or filament data, maximum ratings, operating characteristics, capacitances, cooling/service conditions, and power-output data. Condition-specific transmitting ratings are retained in the section-parameter table.

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	3500 V	Forced-air-cooled RF power service
Maximum DC Screen Voltage	1000 V	Forced-air-cooled RF power service
Maximum DC Plate Current	1.25 A	Forced-air-cooled RF power service
Plate Dissipation	1500 W	Forced-air-cooled RF power service
Screen Input	50 W	Forced-air-cooled RF power service
Typical DC Plate Voltage	2600 V	Forced-air-cooled RF power service
Typical DC Screen Voltage	550 V	Forced-air-cooled RF power service
Useful Power Output	1160 W	Forced-air-cooled RF power service

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Mu Factor	6.5	Forced-air-cooled RF power service
Grid-No.1 to Plate Capacitance	0.14 pF	Forced-air-cooled RF power service
Grid-No.1 to Cathode-Heater Capacitance	38 pF	Forced-air-cooled RF power service