



ELECTRONIC TUBE REFERENCE

827R

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

CONSOLIDATED TECHNICAL
DATA

1 SECTION
CONSTRUCTION
BEAMPOWER

Forced-air-cooled beam-power transmitting tube with integral radiator for high-power RF amplifier and oscillator service through approximately 110 MHz.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	7.5 V / 25 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Beam Power	
AMPLIFICATION FACTOR	16
MAXIMUM PLATE VOLTAGE	8500 V
MAXIMUM SCREEN VOLTAGE	1000 V
MAXIMUM PLATE DISSIPATION	800 W
MAXIMUM CATHODE CURRENT	500 mA
<i>Published ratings and characteristics promoted semantically from source. Identical twin beam sections are represented by one section row while Tube.SectionCount preserves the two physical sections.</i>	

Forced-air-cooled beam-power transmitting tube with integral radiator for high-power RF amplifier and oscillator service to 110 MHz.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1956 RCA Transmitting Tubes

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

1956 RCA TRANSMITTING TUBES

Section 1 · Beam Power

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification Factor	16	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	8500 V	—
Maximum Screen Voltage	1000 V	—
Maximum Plate Dissipation	800 W	—
Maximum Cathode Current	500 mA	—
Full-Input Operating Frequency Maximum	110 MHz	—