

ELECTRONIC TUBE REFERENCE

8828

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

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
BEAMPOWER

Beam-power transmitting tube designed for RF power service, providing substantial output capability for professional communications and industrial electronic equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	26.5 V / 680 mA	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	200 W
MAXIMUM SCREEN DISSIPATION	8 W
MAXIMUM CATHODE CURRENT	300 mA
Published ratings, characteristics, and operating data promoted from supplied datasheet.	

The 8828 is a UHF beam-power RF amplifier tube. The supplied datasheet provides heater or filament data, maximum ratings, operating conditions, RF output information, and interelectrode capacitances where applicable.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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

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Section 1 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum DC Plate Voltage	2200 V	Up to 500 MHz
Maximum DC Screen Voltage	400 V	Up to 500 MHz
Maximum DC Control-Grid Voltage	-100 V	Up to 500 MHz
Maximum DC Plate Current	300 mA	Up to 500 MHz
Maximum DC Control-Grid Current	100 mA	Up to 500 MHz
Screen Dissipation	8 W	Up to 500 MHz
Plate Dissipation	200 W	Up to 500 MHz
Typical Plate Voltage	700 V	Grid-drive circuit at 50 MHz
Typical Screen Voltage	175 V	Grid-drive circuit at 50 MHz
Typical Plate Current	300 mA	Grid-drive circuit at 50 MHz
Typical Driver Power	1.2 W	Grid-drive circuit at 50 MHz
Typical Useful Power Output	100 W	Grid-drive circuit at 50 MHz

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Mu Factor, Screen to Control Grid	12	—
Grid-No.1 to Plate Capacitance	0.15 pF	—
Grid-No.1 to Cathode Capacitance	16 pF	—
Plate to Cathode Capacitance	0.01 pF	—
Grid-No.1 to Screen Capacitance	23 pF	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Screen to Plate Capacitance	7.2 pF	—
Screen to Cathode Capacitance	2.7 pF	—
Cathode to Heater Capacitance	3.3 pF	—
Minimum Heating Time	120 s	—

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes, and their source documents.

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