



ELECTRONIC TUBE REFERENCE

4626

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

CONSOLIDATED TECHNICAL
DATA

1 SECTION
CONSTRUCTION
BEAMPOWER

RCA high-power beam-power transmitting tube for RF, pulse, modulation, and related transmitter service, with 1500-watt maximum plate dissipation and application-specific operating limits.

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	
AMPLIFICATION FACTOR	16
MAXIMUM PLATE VOLTAGE	13000 V
MAXIMUM SCREEN VOLTAGE	1000 V
MAXIMUM PLATE DISSIPATION	1500 W
MAXIMUM CATHODE CURRENT	1.5 A
<i>Published maximum ratings/general electrical characteristics promoted directly; pulse, RF, capacitance, cooling, and service-specific values retained in TUBE_SECTION_PARAMETER.</i>	

High-power beam power tube for RF, pulse, modulation, or transmitting service. The RCA source was reviewed for heater/filament data, maximum ratings, RF and pulse operating conditions, capacitances, cooling requirements, and application-specific limits.

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 plate voltage	13000 V	PromotedValue
Maximum screen-grid voltage	1000 V	PromotedValue
Maximum plate dissipation	1500 W	PromotedValue
Maximum cathode/plate current	1.5 A	PromotedValue
Terminal Temperature (All Terminals)	250 mA	Published datasheet value

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Mu / amplification factor	16	PromotedValue
Heater/filament voltage	5.5 V	Nominal operating value
Heater/filament current	17.3 A	Nominal operating value
Voltage (ac or dc)	55 V	Published datasheet value
Current at 5.5 volts – published value 1	5.5 V	Published datasheet value
Current at 5.5 volts – published value 2	17 V	Published datasheet value
Current at 5.5 volts – published value 3	3 V	Published datasheet value
Minimum heating time	180	Published datasheet value
Mu-Factor, grid No. 1 to grid No. 2 – published value 1	1	Published datasheet value
Mu-Factor, grid No. 1 to grid No. 2 – published value 2	2	Published datasheet value

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Mu-Factor, grid No. 1 to grid No. 2 – published value 3	16	Published datasheet value
DC Plate Voltage	13000 V	Published datasheet value
Instantaneous Peak Plate Voltage	17000 V	Published datasheet value
(Pulse duration < 0.1 s)	0.1	Pulse
Pulsed-Grid-No. 2	2	Pulse
Voltage	1000 V	Published datasheet value
DC Grid-No. 1 Voltage – published value 1	1 V	Published datasheet value
DC Grid-No. 1 Voltage – published value 2	300 V	Published datasheet value
Grid-No. 1 Voltage – published value 1	1 V	Published datasheet value
Grid-No. 1 Voltage – published value 2	100 V	Published datasheet value
Peak Plate Current	30	Published datasheet value
DC Plate Current	1.5	Published datasheet value
Plate Dissipation (Average)	1500 W	Published datasheet value
See dimension 1 outline for temperature measurement points	1	Published datasheet value

TUBE TINKER

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