



ELECTRONIC TUBE REFERENCE

8876

Power - Tetrode (NOT beam) (over 1000V 100W) electronic tube

CONSOLIDATED TECHNICAL
DATA

1 SECTION
CONSTRUCTION
TETRODE

High-power beam tetrode intended for RF amplification in broadcast, communications, or industrial transmitter service, with ratings suited to sustained power operation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	B8-236	BASE PINS	8
NOMINAL HEATER	6 V / 2.4 A	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Tetrode	
AMPLIFICATION FACTOR	5
MAXIMUM PLATE VOLTAGE	2000 V
MAXIMUM SCREEN VOLTAGE	400 V
MAXIMUM PLATE DISSIPATION	250 W
MAXIMUM SCREEN DISSIPATION	12 W
MAXIMUM GRID DISSIPATION	2 W
<i>Promoted values are taken from printed General Characteristics / Maximum Ratings. Additional published conditions and operating data are preserved in parameters.</i>	

Long-life forced-air external-anode radial-beam power tetrode.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1962 Eimac

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

1962 EIMAC

Section 1 · Tetrode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input Capacitance	17 pF	—
Output Capacitance	4.5 pF	—
Feedback Capacitance	0.04 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode-Heater Potential Maximum	150 V	—
Frequency Maximum	500 MHz	—
Maximum DC Plate Current	250 mA	—
Typical Plate Output Power	390 W	ClassC;Frequency<=175MHz



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1965 Eimac Tube Manual

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

1965 EIMAC TUBE MANUAL

Section 1 · Tetrode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
The	8876	The 8876 is a ceramic/metal forced-air cooled, external-anode radial-

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
beam tetrode with a maximum plate dissipation rating of	250 W	beam tetrode with a maximum plate dissipation rating of 250 watts and a
maximum input-power rating of [1]	500 W	maximum input-power rating of 500 wattso The 8876 is designed for very
maximum input-power rating of [2]	8876 W	maximum input-power rating of 500 wattso The 8876 is designed for very
Heater: Voltage [1]	6 V	Heater: Voltage 6.0 ± 0.3
Heater: Voltage [2]	0.3 V	Heater: Voltage 6.0 ± 0.3
Current, at [1]	6 A	Current, at 6.0 volts 2.4
Current, at [2]	2.4 A	Current, at 6.0 volts 2.4
Cathode-Heater Potential, maximum, ±	150	Cathode-Heater Potential, maximum, ±150
Grid to Screen	5	Grid to Screen 5
Direct Interelectrode Capacitances (grounded cathode)	2 pF	Direct Interelectrode Capacitances (grounded cathode) 2
Direct Interelectrode Capacitances (grounded grid and screen)	2 pF	Direct Interelectrode Capacitances (grounded grid and screen)2
Published value	2 pF	2. Capacitance values are for a cold tube as measured in a special shielded fixture in accordance with Electronic In-
Ceramic/Metal Seals	250	Ceramic/Metal Seals 250OC
Anode Core	250	Anode Core 250OC
RADIO FREQUENCY LINEAR AMPLIFIER TYPICAL OPERATION (Frequencies to	175 MHz	RADIO FREQUENCY LINEAR AMPLIFIER TYPICAL OPERATION (Frequencies to 175 MHz)
MAXIMUM PIATINGS: Grid Voltage	1 V	MAXIMUM PIATINGS: Grid Voltage 1
DC PLATE VOLTAGE	2000 V	DC PLATE VOLTAGE 2000 VOLTS Two-Tone Plate Current . . .
DC SCREEN VOLTAGE	400 V	DC SCREEN VOLTAGE 400 VOLTS Single-Tone Screen Current2
DC GRID VOLTAGE	-250 V	DC GRID VOLTAGE -250 VOLTS
DC PLATE CURFIENT	0.25 V	DC PLATE CURFIENT 0.25 AMPERE Peak rf Grid Voltage2
PLATE DISSIPATION	250 W	PLATE DISSIPATION 250 WATTS
SCREEN DISSIPATION	12 W	SCREEN DISSIPATION 12 WATTS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Published value	1 A	1. Adjust to specified zero-signal dc plate current.
GRID DISSIPATION [1]	2 W	GRID DISSIPATION . 2 WATTS 2. Approximate value.
GRID DISSIPATION [2]	2 W	GRID DISSIPATION . 2 WATTS 2. Approximate value.
RADIO FREQUENCY LINEAR AMPLIFIER TYPICAL OPERATION (Frequencies to	175 MHz	RADIO FREQUENCY LINEAR AMPLIFIER TYPICAL OPERATION (Frequencies to 175 MHz)
DC PLATE VOLTAGE ,	2000 V	DC PLATE VOLTAGE , 2000 VOLTS
DC SCREEN VOLTAGE	400 V	DC SCREEN VOLTAGE 400 VOLTS Carrier Screen Current . .
DC GRID VOLTAGE ,	-250 V	DC GRID VOLTAGE , -250 VOLTS Peak rf Grid Voltage2 . .
DC PLATE SUPPLY ,	0.25 W	DC PLATE SUPPLY , 0.25 AMPERE Plate Output Power
PLATE DISSIPATION ,	250 W	PLATE DISSIPATION , 250 WATTS
SCREEN DISSIPATION [1]	12 A	SCREEN DISSIPATION 12 WATTS 1. Adjust to specified zero-signal dc plate current.
SCREEN DISSIPATION [2]	1 A	SCREEN DISSIPATION 12 WATTS 1. Adjust to specified zero-signal dc plate current.
GRID DISSIPATION [1]	2 W	GRID DISSIPATION . 2 WATTS 2. Approximate value
GRID DISSIPATION [2]	2 W	GRID DISSIPATION . 2 WATTS 2. Approximate value
RADIO FREQUENCY POWER AMPLIFIER TYPICAL OPERATION (Frequencies to [1]	175 MHz	RADIO FREQUENCY POWER AMPLIFIER TYPICAL OPERATION (Frequencies to 175 MHz) 500 MHz
RADIO FREQUENCY POWER AMPLIFIER TYPICAL OPERATION (Frequencies to [2]	500 MHz	RADIO FREQUENCY POWER AMPLIFIER TYPICAL OPERATION (Frequencies to 175 MHz) 500 MHz
Plate Voltage [1]	50010001500 V	Plate Voltage 50010001500 2000 2000 Vdc
Plate Voltage [2]	2000 V	Plate Voltage 50010001500 2000 2000 Vdc
Plate Voltage [3]	2000 V	Plate Voltage 50010001500 2000 2000 Vdc
Class C Telephony or FM Telephony Screen Voltage [1]	250 V	Class C Telephony or FM Telephony Screen Voltage 250 250 250 250 300 Vdc
Class C Telephony or FM Telephony Screen Voltage [2]	250 V	Class C Telephony or FM Telephony Screen Voltage 250 250 250 250 300 Vdc

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Class C Telegraphy or FM Telephony ScreenVoltage [3]	250 V	Class C Telegraphy or FM Telephony ScreenVoltage 250 250 250 250 300 Vdc
Class C Telegraphy or FM Telephony ScreenVoltage [4]	250 V	Class C Telegraphy or FM Telephony ScreenVoltage 250 250 250 250 300 Vdc
Class C Telegraphy or FM Telephony ScreenVoltage [5]	300 V	Class C Telegraphy or FM Telephony ScreenVoltage 250 250 250 250 300 Vdc
(Key-Down Conditions) Gridvoltage [1]	90 V	(Key-Down Conditions) Gridvoltage- 90 -90 -90 -90 -90 Vdc
(Key-Down Conditions) Gridvoltage [2]	-90 V	(Key-Down Conditions) Gridvoltage- 90 -90 -90 -90 -90 Vdc
(Key-Down Conditions) Gridvoltage [3]	-90 V	(Key-Down Conditions) Gridvoltage- 90 -90 -90 -90 -90 Vdc
(Key-Down Conditions) Gridvoltage [4]	-90 V	(Key-Down Conditions) Gridvoltage- 90 -90 -90 -90 -90 Vdc
(Key-Down Conditions) Gridvoltage [5]	-90 V	(Key-Down Conditions) Gridvoltage- 90 -90 -90 -90 -90 Vdc
PlateCurrent [1]	250 mA	PlateCurrent 250 250 250 250 250 mAdc
PlateCurrent [2]	250 mA	PlateCurrent 250 250 250 250 250 mAdc
PlateCurrent [3]	250 mA	PlateCurrent 250 250 250 250 250 mAdc
PlateCurrent [4]	250 mA	PlateCurrent 250 250 250 250 250 mAdc
PlateCurrent [5]	250 mA	PlateCurrent 250 250 250 250 250 mAdc
Screencurrentl [1]	45 mA	Screencurrentl 45 38 21 19 1 0 mAdc2
Screencurrentl [2]	38 mA	Screencurrentl 45 38 21 19 1 0 mAdc2
Screencurrentl [3]	21 mA	Screencurrentl 45 38 21 19 1 0 mAdc2
Screencurrentl [4]	19 mA	Screencurrentl 45 38 21 19 1 0 mAdc2
Screencurrentl [5]	1 mA	Screencurrentl 45 38 21 19 1 0 mAdc2
Screencurrentl [6]	0 mA	Screencurrentl 45 38 21 19 1 0 mAdc2
Gridcurrentl [1]	35 mA	Gridcurrentl 35 31 28 26 25 mAdc2
Gridcurrentl [2]	31 mA	Gridcurrentl 35 31 28 26 25 mAdc2
Gridcurrentl [3]	28 mA	Gridcurrentl 35 31 28 26 25 mAdc2
Gridcurrentl [4]	26 mA	Gridcurrentl 35 31 28 26 25 mAdc2
Gridcurrentl [5]	25 mA	Gridcurrentl 35 31 28 26 25 mAdc2
PeakrfGridvoltageI	114114000000 V	PeakrfGridvoltageI..114114112112 .-V
DC PLATE VOLTAGE	2000 V	DC PLATE VOLTAGE 2000 VOLTS Measured Driving

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC SCREEN VOLTAGE [1]	300 V	DC SCREEN VOLTAGE 300 VOLTS power 1
DC SCREEN VOLTAGE [2]	1 V	DC SCREEN VOLTAGE 300 VOLTS power 1
DC GF`LD VOLTAGE	-250 V	DC GF`LD VOLTAGE -250 VOLTS Plate Input Power
DC PLATE CURF}ENT	0.25 W	DC PLATE CURF}ENT 0.25 AMPERE Plate Output Power
SCREEN DISSIPATION [1]	12 W	SCREEN DISSIPATION 12 WATTS 1. Approximate value.
SCREEN DISSIPATION [2]	1 W	SCREEN DISSIPATION 12 WATTS 1. Approximate value.
GF`LD DISSIPATION [1]	2 W	GF`LD DISSIPATION 2 WATTS 2, Measured values for a typical cavity amplifier circuit.
GF`LD DISSIPATION [2]	2 W	GF`LD DISSIPATION 2 WATTS 2, Measured values for a typical cavity amplifier circuit.
Screen Current	3 A	Screen Current 3
DC PLATE VOLTAGE [1]	1500 V	DC PLATE VOLTAGE 1500 VOLTS Grid Current 3
DC PLATE VOLTAGE [2]	3 V	DC PLATE VOLTAGE 1500 VOLTS Grid Current 3
DC SCREEN VOLTAGE	300 V	DC SCREEN VOLTAGE 300 VOLTS Peak rf Grid Voltage3. . .
DC GFilD VOLTAGE	-250 V	DC GFilD VOLTAGE -250 VOLTS Calculated Driving Power
DC PLATE CURRENT	200 mA	DC PLATE CURRENT . 0.20 AMPEPIE Plate Input Power
PLATE DISSIPATIONT [1]	165 W	PLATE DISSIPATIONT 165 WATTS 1. Corresponds to 250 watts at 100°/o sine-wave modulation.
PLATE DISSIPATIONT [2]	1 W	PLATE DISSIPATIONT 165 WATTS 1. Corresponds to 250 watts at 100°/o sine-wave modulation.
PLATE DISSIPATIONT [3]	250 W	PLATE DISSIPATIONT 165 WATTS 1. Corresponds to 250 watts at 100°/o sine-wave modulation.
PLATE DISSIPATIONT [4]	100 W	PLATE DISSIPATIONT 165 WATTS 1. Corresponds to 250 watts at 100°/o sine-wave modulation.
SCF{EEN DISSIPATION2 [1]	12 W	SCF{EEN DISSIPATION2 12 WATTS 2. Average, with or without modulation.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
SCF{EEN DISSIPATION2 [2]	2 W	SCF{EEN DISSIPATION2 12 WATTS 2. Average, with or without modulation.
GRID DISSIPATION2 [1]	2 W	GRID DISSIPATION2 2 WATTS 3. Approximate value.
GRID DISSIPATION2 [2]	3 W	GRID DISSIPATION2 2 WATTS 3. Approximate value.
Grid Voltage [1]	1 V	Grid Voltage 1 /3
Grid Voltage [2]	3 V	Grid Voltage 1 /3

TUBE TINKER

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