



ELECTRONIC TUBE REFERENCE

4400A

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

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TETRODE

Forced-air-cooled transmitting tetrode designed for RF power amplification, oscillation, modulation, FM service, and high-power audio-frequency amplifier applications.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	5
NOMINAL HEATER	5 V / 14.5 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Tetrode	
TRANSCONDUCTANCE	0.004 S
AMPLIFICATION FACTOR	5.1
MAXIMUM PLATE VOLTAGE	4000 V
MAXIMUM SCREEN VOLTAGE	800 V
MAXIMUM PLATE DISSIPATION	400 W
MAXIMUM SCREEN DISSIPATION	35 W
MAXIMUM GRID DISSIPATION	10 W
MAXIMUM CATHODE CURRENT	350 mA
<i>Highest applicable published rating promoted; service-specific CW, RF, audio, industrial, and pulse limits retained as parameter rows.</i>	

Radiation/forced-air-cooled transmitting tetrode for RF power-amplifier, modulator, and oscillator service.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Amperex Condensed

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

1963 AMPEREX CONDENSED

Section 1 · Tetrode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	4000 V	RFPowerAmplifier
Plate current	350 mA	RFPowerAmplifier
Power output	1100 W	RFPowerAmplifier
Control-grid voltage	-220 V	RFPowerAmplifier
Grid current	18 mA	RFPowerAmplifier
Screen voltage	500 V	RFPowerAmplifier
Maximum frequency at full input	75 MHz	RFPowerAmplifier

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	0.12 pF	Section1
Input capacitance	12.5 pF	Section1
Output capacitance	4.7 pF	Section1



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
Grid-Plate Capacitance	0.12 pF	—
Input Capacitance	12.5 pF	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Output Capacitance	4.7 pF	—
Frequency Maximum	110 MHz	—
Typical Plate Output Power	630 W	—
Plate-Modulated Plate Voltage Maximum	3200 V	—
AF Plate Voltage Maximum	4000 V	—



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

SOURCE PDF

1965 Penta Labs Power Tubes

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

1965 PENTA LABS POWER TUBES

Section 1 · Tetrode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage	5 V	—
Heater/filament current	14.5 A	—
Amplification factor	5.1	—
Transconductance	4000 uS	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	4000 V	—
Maximum screen voltage	800 V	—
Maximum plate dissipation	400 W	—
Maximum control-grid dissipation	10 W	—
Source language	English	—
Maximum frequency for full ratings	110 MHz	—
FM service plate voltage	3000 V	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-plate capacitance	0.12 pF	—
Input capacitance	12.5 pF	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Output capacitance	4.5 pF	—

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Primary application	400 W power tetrode for RF amplifier, oscillator, modulator, and FM service.	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cooling	Forced air	—
Electrode structure	Tetrode	—



SOURCE OPERATING CONDITIONS

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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 · Tetrode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage	5 V	—
Heater/filament current	14.5 A	—
Filament voltage	5 V	—
Filament current	14.5 A	—
Maximum plate voltage	4000 V	ClassAB
Maximum screen voltage	800 V	ClassAB
Maximum plate current	350 mA	ClassAB
Maximum screen input	35 W	—
Maximum control-grid input	10 W	—
Maximum plate dissipation	400 W	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	4000 uS	Plate2500V;Screen500V;PlateCurrent100mA

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Screen-to-control-grid mu factor	5.1	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid No.1-to-plate capacitance	0.12 pF	—
Input capacitance	13 pF	—
Output capacitance	4.6 pF	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cooling method	Forced air	—

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	AF power amplifier / modulator and RF power amplifier —	

TUBE TINKER

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

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