

ELECTRONIC TUBE REFERENCE

4125A

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

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TETRODE

Forced-air-cooled transmitting power tetrode for RF amplifier and oscillator service, capable of several hundred watts output with full ratings into VHF.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	5
NOMINAL HEATER	5 V / 6.5 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Tetrode	
TRANSCONDUCTANCE	0.00245 S
AMPLIFICATION FACTOR	5.9
MAXIMUM PLATE VOLTAGE	3000 V
MAXIMUM SCREEN VOLTAGE	600 V
MAXIMUM PLATE DISSIPATION	125 W
MAXIMUM SCREEN DISSIPATION	20 W
MAXIMUM GRID DISSIPATION	5 W
MAXIMUM CATHODE CURRENT	1.6 A
Published source values promoted where applicable; additional values retained as parameters.	

4125A is a Tetrode device in the supplied Amperex literature. Radiation- and forced-air-cooled power tetrode; supplied table explicitly co-designates 4-125A/4D21.



SOURCE OPERATING CONDITIONS

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1950 General Electric Transmitting Types

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

1950 GENERAL ELECTRIC TRANSMITTING TYPES

Section 1 · Tetrode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Power output maximum signal	520 W	ClassAB



SOURCE OPERATING CONDITIONS

1953 Amperex

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

1953 AMPEREX

Section 1 · Tetrode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum frequency at full ratings	120 MHz	—
Reduced-rating frequency	200 MHz	—
Peak cathode current maximum	1.6 A	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-plate capacitance maximum	0.07 pF	—



SOURCE OPERATING CONDITIONS

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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 · Tetrode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum full-rating frequency	120 MHz	—
Reduced-rating frequency	250 MHz	—

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



SOURCE OPERATING CONDITIONS

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1962 Eimac

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

1962 EIMAC

Section 1 · Tetrode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency for Maximum Ratings	120 MHz	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-Plate Capacitance	0.05 pF	Average
Input Capacitance	10.8 pF	Average

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Output Capacitance	3.1 pF	Average



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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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	2500 V	RF Amplifier Or Oscillator
Plate current	200 mA	RF Amplifier Or Oscillator
RF output power	375 W	RF Amplifier Or Oscillator
Grid voltage	-150 V	RF Amplifier Or Oscillator
Grid current	12 mA	RF Amplifier Or Oscillator
Screen voltage	350 V	RF Amplifier Or Oscillator
Maximum frequency at full input rating	120 MHz	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	0.05 pF	—
Grid-to-filament/cathode capacitance	10.8 pF	—
Plate-to-filament/cathode capacitance	3.1 pF	—

TUBE TINKER

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