



ELECTRONIC TUBE REFERENCE

5894

Power - Tetrode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TETRODE-TETRODE

High-frequency twin power tetrode for RF multiplier, amplifier, and modulator service, with transmitting ratings and forced-air or radiation cooling.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	7
NOMINAL HEATER	12.6 V / 900 mA	PARALLEL HEATER	6.3 V / 1.8 A
HEATING	Indirect	SERIES OPERATION	Capable
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Tetrode	
AMPLIFICATION FACTOR	8.2
MAXIMUM PLATE VOLTAGE	600 V
MAXIMUM SCREEN VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	45 W
Representative electrical section; 2 physical sections are identical and compressed per locked repeated-section rule.	

SECTION2 Tetrode	
AMPLIFICATION FACTOR	8.2
MAXIMUM PLATE VOLTAGE	600 V
MAXIMUM SCREEN VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	45 W
<i>Identical second physical Tetrode section; duplicated from representative section per physical-section-row policy.</i>	

5894 is a Tetrode device. RF power tetrode with dual heater connection and CCS/ICAS ratings.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltage	12.6 V	—
HeaterOrFilamentCurrent	900 mA	—
Heater Voltage Parallel	6.3 V	Parallel
Heater Current Parallel	1.8 A	Parallel



SOURCE OPERATING CONDITIONS

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1958 Amperex Industrial

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1958 AMPEREX INDUSTRIAL

Section 1 · Tetrode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate dissipation CCS	40 W	CCS
Maximum plate dissipation ICAS	45 W	ICAS
Plate voltage	600 V	CCS ClassC
Plate current	200 mA	CCS ClassC
Power output	85 W	CCS ClassC
Grid voltage	-80 V	CCS ClassC
Grid current	5 mA	CCS ClassC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Screen voltage	250 V	CCS ClassC
Plate voltage	750 V	ICAS ClassC
Power output	105 W	ICAS ClassC

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum frequency	250 MHz	—
Grid-to-plate capacitance	0.08 pF	—
Input capacitance	6.7 pF	—
Output capacitance	2.1 pF	PushPull



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1959 Telefunken

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

1959 TELEFUNKEN

Section 1 · Tetrode

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	RF amplifier / oscillator / frequency multiplier	—
Modulator service	Published	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Internal neutralization	Yes	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Class-C operation	Published	ClassC



1963 Amperex Condensed

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1963 AMPEREX CONDENSED

Section 1 · Tetrode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage alternate	6.3 V	ParallelConnection
Heater current alternate	1.8 A	ParallelConnection
Plate voltage	600 V	CCS
Plate current	200 mA	CCS
RF output power	85 W	CCS
Grid voltage	-80 V	CCS
Grid current	5 mA	CCS
Screen voltage	250 V	CCS
Maximum frequency at full input rating	200 MHz	—