



ELECTRONIC TUBE REFERENCE

7854

Power - Tetrode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TETRODE-TETRODE

Twin tetrode designed for RF power amplifier, oscillator, modulator, and frequency-multiplier service to about 500 MHz. Heat-sink or forced-air cooling is required near maximum ratings.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 1.8 A	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	1000 V
MAXIMUM SCREEN VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	34 W
MAXIMUM SCREEN DISSIPATION	8 W
MAXIMUM CATHODE CURRENT	120 mA
<i>Published ratings/characteristics promoted from the source; representative section used for repeated identical systems where applicable.</i>	

SECTION2 Tetrode	
AMPLIFICATION FACTOR	8.2
MAXIMUM PLATE VOLTAGE	1000 V
MAXIMUM SCREEN VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	34 W
MAXIMUM SCREEN DISSIPATION	8 W
MAXIMUM CATHODE CURRENT	120 mA
<i>Second identical physical tetrode section; added to align rows with SectionCount.</i>	

7854 is a DualTetrode device in the supplied Amperex literature. Twin tetrode for RF power amplifier, oscillator, modulator, and frequency-multiplier service; heat-sink or forced-air cooling is required near maximum ratings and the tube is useful to 500 MHz.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1953 Amperex

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

1953 AMPEREX

Section 1 · Tetrode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification Factor	8.2	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	1000 V	—
Maximum Screen Voltage	300 V	—
Maximum Plate Dissipation	34 W	—
Maximum Screen Dissipation	8 W	—
Maximum Cathode Current	120 mA	—



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	1000 V	RFPower
Plate current	200 mA	RFPower
RF output power	134 W	RFPower
Grid voltage	-85 V	RFPower

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid current	5.4 mA	RFPower
Screen voltage	250 V	RFPower
Maximum frequency at full input rating	175 MHz	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	0.09 pF	—
Input capacitance	11.6 pF	—
Output capacitance	3.7 pF	—

TUBE TINKER

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

[Catalog](#) [Tube types](#) [Full books](#) [Blog](#) [Feedback & corrections](#)

© 2026 Tube Tinker