



ELECTRONIC TUBE REFERENCE

8179

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

CONSOLIDATED TECHNICAL
DATA1 SECTION
CONSTRUCTION
TETRODE

High-power transmitting tetrode designed for RF power amplification, linear amplification, oscillation, modulation, or frequency multiplication.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	7.5 V / 22.6 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Tetrode	
TRANSCONDUCTANCE	0.01 S
AMPLIFICATION FACTOR	5.1
MAXIMUM PLATE VOLTAGE	5500 V
MAXIMUM SCREEN VOLTAGE	800 V
MAXIMUM PLATE DISSIPATION	800 W
MAXIMUM SCREEN DISSIPATION	120 W
MAXIMUM CATHODE CURRENT	600 mA
<i>Published ratings/characteristics promoted from the source; representative section used for repeated identical systems where applicable.</i>	

Radiation/air-cooled power tetrode for AM and SSB amplifier service.



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
Transconductance	10000 μ S	—
Amplification Factor	5.1	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	5500 V	—
Maximum Screen Voltage	800 V	—
Maximum Plate Dissipation	800 W	—
Maximum Screen Dissipation	120 W	—
Maximum Cathode Current	600 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	5500 V	RFPower
Plate current	600 mA	RFPower
Power output	1300 W	RFPower

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid voltage	-500 V	RFPower
Grid current	0 mA	RFPower
Screen voltage	800 V	RFPower
Maximum frequency	30 MHz	RFPower

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	0.1 pF	—
Input capacitance	47 pF	—
Output capacitance	9.5 pF	—

TUBE TINKER

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

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