



ELECTRONIC TUBE REFERENCE

7983

Power - Tetrode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TETRODE-TETRODE

Quick-heating twin tetrode for hybrid mobile transceivers, serving as RF power output, driver, oscillator, or frequency multiplier. Internal neutralization supports operation to approximately 200 MHz.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	3.15 V / 1.65 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Tetrode	
TRANSCONDUCTANCE	0.003 S
AMPLIFICATION FACTOR	7.5
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM SCREEN VOLTAGE	200 V
MAXIMUM PLATE DISSIPATION	7 W
MAXIMUM SCREEN DISSIPATION	1 W
MAXIMUM GRID DISSIPATION	0.2 W
MAXIMUM CATHODE CURRENT	65 mA
<i>Published ratings/characteristics promoted from the source; representative section used for repeated identical systems where applicable.</i>	

SECTION2 Tetrode	
TRANSCONDUCTANCE	0.003 S
AMPLIFICATION FACTOR	7.5
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM SCREEN VOLTAGE	200 V
MAXIMUM PLATE DISSIPATION	7 W
MAXIMUM SCREEN DISSIPATION	1 W
MAXIMUM CATHODE CURRENT	65 mA
Second identical physical section; added to align physical rows with SectionCount.	

Quick-heating twin tetrode intended for hybrid mobile transceivers as an RF power-output, driver, oscillator or frequency-multiplier tube; internally neutralized to about 200 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
Transconductance	3000 μ S	—
Amplification Factor	7.5	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	300 V	—
Maximum Screen Voltage	200 V	—
Maximum Plate Dissipation	7 W	—
Maximum Screen Dissipation	1 W	—
Maximum Grid Dissipation	0.2 W	—
Maximum Cathode Current	65 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	300 V	RFPower
Plate current	55 mA	RFPower

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Power output	11 W	RFPower
Grid voltage	-40 V	RFPower
Grid current	1.5 mA	RFPower
Screen voltage	155 V	RFPower
Maximum frequency	200 MHz	RFPower

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	0.08 pF	—
Input capacitance	6.8 pF	—
Output capacitance	3.2 pF	—