



ELECTRONIC TUBE REFERENCE

AX9907R

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

CONSOLIDATED TECHNICAL
DATA

1 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	6.3 V / 33.5 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Tetrode	
AMPLIFICATION FACTOR	7.5
MAXIMUM PLATE VOLTAGE	4000 V
MAXIMUM SCREEN VOLTAGE	800 V
MAXIMUM PLATE DISSIPATION	3000 W
<i>Electrical values extracted from the supplied source table; typical operating values are preserved in TUBE_SECTION_PARAMETER.</i>	

AX9907R is listed in the supplied Amperex power-tube table as a transmitting power tetrode, with published filament, dissipation, operating, output-power, and frequency data.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1958 Amperex Industrial

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

1958 AMPEREX INDUSTRIAL

Section 1 · Tetrode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament voltage	6.3 V	Published transmitting-tube rating
Filament current	33.5 A	Published transmitting-tube rating
Amplification factor	7.5	Published power-tube table

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate dissipation	3000 W	Published power-tube table
Plate voltage	4000 V	TransmittingService
Plate current	1.1 A	TransmittingService
Power output	3300 W	TransmittingService
Grid bias	-250 V	TransmittingService
Grid current	70 mA	TransmittingService
Screen voltage	800 V	TransmittingService
Maximum frequency	220 MHz	FullInputWatts
Alternate plate voltage	5000 V	TransmittingService OperatingPoint2
Alternate plate current	1.1 A	TransmittingService OperatingPoint2
Alternate power output	4100 W	TransmittingService OperatingPoint2
Alternate grid bias	-250 V	TransmittingService OperatingPoint2
Alternate grid current	70 mA	TransmittingService OperatingPoint2
Alternate screen voltage	900 V	TransmittingService OperatingPoint2
Alternate maximum frequency	75 MHz	TransmittingService OperatingPoint2

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

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