ELECTRONIC TUBE REFERENCE

AX9907

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

Electrical values extracted from the supplied source table; typical operating values are preserved in TUBE_SECTION_PARAMETER.

AX9907 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

1958 Amperex Industrial

SOURCE PDF

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	**5000 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	**800 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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