



ELECTRONIC TUBE REFERENCE

X2159

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

CONSOLIDATED TECHNICAL
DATA

1 SECTION
CONSTRUCTION
TETRODE

Enormous water-cooled ceramic-metal transmitting tetrode intended for megawatt-class broadcast and VLF communications installations. Its directly heated cathode, very high plate voltage, and approximately 1.25 MW plate-dissipation capability place it among extreme fixed-station RF power devices.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	18.5 V / 700 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Tetrode	
AMPLIFICATION FACTOR	4.5
MAXIMUM PLATE VOLTAGE	22500 V
MAXIMUM SCREEN VOLTAGE	2500 V
MAXIMUM PLATE DISSIPATION	1250000 W
MAXIMUM SCREEN DISSIPATION	15000 W
MAXIMUM GRID DISSIPATION	4000 W
MAXIMUM CATHODE CURRENT	126 A
<i>Promoted from printed general-characteristics and maximum-ratings/operating data.</i>	

The EIMAC X2159 is a water-cooled ceramic/metal megawatt-class power tetrode for broadcast and vlf communications.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1962 Eimac

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

1962 EIMAC

Section 1 · Tetrode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor	4.5	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	22500 V	—
Maximum screen voltage	2500 V	—
Maximum plate dissipation	1250000 W	—
Maximum screen dissipation	15000 W	—
Maximum grid dissipation	4000 W	—
Maximum cathode/plate current	126 A	—

TUBE TINKER

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and their source documents.

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