



ELECTRONIC TUBE REFERENCE

8173

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

CONSOLIDATED TECHNICAL
DATA

1 SECTION
CONSTRUCTION
TETRODE

Water-cooled high-power Eimac transmitting tetrode capable of very high RF output, including television visual service into the VHF range.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	12 V / 80 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Tetrode	
AMPLIFICATION FACTOR	5.5
MAXIMUM PLATE VOLTAGE	8000 V
MAXIMUM SCREEN VOLTAGE	1200 V
MAXIMUM PLATE DISSIPATION	20000 W
MAXIMUM SCREEN DISSIPATION	250 W
MAXIMUM GRID DISSIPATION	100 W
MAXIMUM CATHODE CURRENT	6.6 A
<i>Promoted from printed general-characteristics and maximum-ratings blocks.</i>	

The EIMAC 8173 is a water-cooled high-power transmitting tetrode.



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	5.5	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum DC plate voltage	8000 V	—
Maximum DC screen voltage	1200 V	—
Maximum plate dissipation	20000 W	—
Maximum screen dissipation	250 W	—
Maximum grid dissipation	100 W	—
Maximum cathode/plate current	6.6 A	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1965 Eimac Tube Manual

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

1965 EIMAC TUBE MANUAL

Section 1 · Tetrode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency Maximum	250 MHz	—
Typical TV Visual RF Output	26000 W	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-Screen Amplification Factor	4.5	—
Cathode Bombardment Voltage	1500 V	—
Filament Current	1.8 A	—
Water Cooling Required	1 boolean	—

TUBE TINKER

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

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