



ELECTRONIC TUBE REFERENCE

8990

Power - Beam (NOT sweep) (over 1000V 100W) electronic tube

CONSOLIDATED TECHNICAL
DATA

1 SECTION
CONSTRUCTION
BEAMPOWER

Very-high-power forced-air radial-beam tetrode for audio, FM, linear RF, and television transmitting service, rated around 20 kW plate dissipation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	10 V / 140 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Beam Power	
AMPLIFICATION FACTOR	4.5
MAXIMUM PLATE VOLTAGE	10000 V
MAXIMUM SCREEN VOLTAGE	2000 V
MAXIMUM PLATE DISSIPATION	20000 W
MAXIMUM SCREEN DISSIPATION	450 W
MAXIMUM GRID DISSIPATION	200 W
MAXIMUM CATHODE CURRENT	5 A
<i>Promoted from printed general-characteristics and absolute-maximum-ratings blocks.</i>	

The EIMAC 8990 is a forced-air-cooled ceramic/metal radial-beam power tetrode for audio, fm, linear rf and television service.



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 · Beam Power

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor	4.5	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum DC plate voltage	10000 V	—
Maximum DC screen voltage	2000 V	—
Maximum plate dissipation	20000 W	—
Maximum screen dissipation	450 W	—
Maximum grid dissipation	200 W	—
Maximum cathode/plate current	5 A	—



SOURCE OPERATING CONDITIONS

199X Svetlana

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

199X SVETLANA

Section 1 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	10 V	Nominal
HeaterCurrentNominal	140 A	Nominal

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	10000 V	—
Maximum Screen Voltage	2000 V	—
Maximum Plate Dissipation	20000 W	—
Maximum Screen Dissipation	450 W	—