



ELECTRONIC TUBE REFERENCE

8297

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

CONSOLIDATED TECHNICAL
DATA

1 SECTION
CONSTRUCTION
BEAMPOWER

Ruggedized radial-beam tetrode for RF amplifiers, oscillators, and frequency multipliers at frequencies extending to approximately 500 MHz.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	26.5 V / —	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Beam Power	
AMPLIFICATION FACTOR	5
MAXIMUM PLATE VOLTAGE	2000 V
MAXIMUM SCREEN VOLTAGE	400 V
MAXIMUM PLATE DISSIPATION	250 W
MAXIMUM SCREEN DISSIPATION	12 W
MAXIMUM GRID DISSIPATION	2 W
MAXIMUM CATHODE CURRENT	250 mA
<i>Promoted ratings mapped semantically from printed characteristics/maximum-ratings tables; remaining published electrical and operating-condition data retained densely in TUBE_SECTION_PARAMETER.</i>	

The Eimac 8297 is one of the 8296/4X150R and 8297/4X150S ruggedized radial-beam tetrodes for amplifiers, oscillators and frequency multipliers to 500 MHz.



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 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode-Heater Voltage Maximum	150 V	—
Frequency Full Rating Maximum	150 MHz	—
Useful Frequency Maximum	500 MHz	—
Typical RF Output Power	250 W	—
Ruggedized Construction	1 boolean	—

TUBE TINKER

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

[Catalog](#) [Tube types](#) [Full books](#) [Blog](#) [Feedback & corrections](#)

© 2026 Tube Tinker