



ELECTRONIC TUBE REFERENCE

4CS250R

Power - Beam (NOT sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

BEAMPOWER

Compact conduction-cooled high-perveance radial-beam tetrode, electrically related to the 4CX250R and ruggedized for severe shock and vibration.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	6 V / 2.6 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Beam Power	
MAXIMUM PLATE VOLTAGE	2000 V
MAXIMUM SCREEN VOLTAGE	500 V
MAXIMUM SCREEN DISSIPATION	12 W
MAXIMUM GRID DISSIPATION	2 W
<i>Source explicitly states plate dissipation is limited by maximum anode and ceramic/metal seal temperatures; no single plate-dissipation maximum is promoted.</i>	

The 4CS250R is a compact conduction-cooled high-perveance radial-beam tetrode, electrically identical to the 4CX250R except for its thermally limited dissipation system, and ruggedized for shock and vibration.

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
Frequency for Maximum Ratings	500 MHz	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum DC Plate Current	250 mA	Maximum
Cathode-Heater Potential	150 V	Magnitude
Useful Output Power	470 W	Linear amplifier, 2000 V plate

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input Capacitance	17 pF	Grounded cathode
Output Capacitance	4.7 pF	Grounded cathode
Feedback Capacitance	0.04 pF	Grounded cathode